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IN THE DRAWINGS:

Attached are 47 annotated sheets of drawings which include and illustrate (in red ink) changes to FIGs. 2A through 22 (renumbered 2A through 27). Also attached is a complete set of formalized drawings (49 sheets) labeled as replacement sheets. These replacement sheets, which include FIGs. 1 through 27, replace the original sheets including FIGs. 1 through 22.

Specifically, the figures have been renumbered in order to assign a new figure number to each page of the figure when the figure contains more than one page, causing all figures except FIG. 1 and the first page of FIG. 2A to be renumbered. "FIG. 2A (Contd.)" (6 pages) have been revised to change the figure labels to now read --FIG. 2B-- through --FIG. 2G--, respectively; "FIG. 2B" has been revised to change the figure label to now read --FIG. 3A--; "FIG. 2B (Contd.)" (5 pages) have been revised to change the figure labels to now read --FIG. 3B-- through --FIG. 3F--, respectively; "FIG. 3A" has been revised to change the figure label to now read --FIG. 4A--; "FIG. 3A (Contd.)" (2 pages) have been revised to change the figure labels to now read --FIG. 4B-- and --FIG. 4C--, respectively; "FIG. 3B" has been revised to change the figure label to now read --FIG. 5A--; "FIG. 3B (Contd.)" (1 page) has been revised to change the figure label to now read --FIG. 5B--; "FIG. 3C" has been revised to change the figure label to now read --FIG. 6--; "FIG. 4" has been revised to change the figure label to now read --FIG. 7--; "FIG. 5A" has been revised to change the figure label to now read --FIG. 8A--; "FIG. 5B" has been revised to change the figure label to now read --FIG. 8B--; "FIG. 5C" has been revised to change the figure label to now read --FIG. 8C--; "FIG. 5D" has been revised to change the figure label to now read --FIG. 8D--; "FIG. 5E" has been revised to change the figure label to now read --FIG. 8E--; "FIG. 5F" has been revised to change the figure label to now read --FIG. 8F--; "FIG. 5G" has been revised to change the figure label to now read --FIG. 8G--; "FIG. 6" has been revised to change the figure label to now read --FIG. 9--; "FIG. 7" has been revised to change the figure label to now read --FIG. 10--; "FIG. 8A," "FIG. 8B" and "FIG. 8C" have been revised to change the figure labels to now read --FIG. 11A--, --FIG. 11B--, and --FIG. 11C--, respectively; "FIG. 9" has been revised to change the figure label to now read --FIG. 12--; "FIG. 10" has been revised to change the figure label to now read --FIG. 13--; "FIG. 11" has been revised to change

the figure label to now read --FIG. 14--; "FIG. 12" has been revised to change the figure label to now read --FIG. 15--; "FIG. 13" has been revised to change the figure label to now read --FIG. 16--; "FIG. 14" has been revised to change the figure label to now read --FIG. 17--; "FIG. 15" has been revised to change the figure label to now read --FIG. 18--; "FIG. 16A" has been revised to change the figure label to now read --FIG. 19--; "FIG. 16B" has been revised to change the figure label to now read --FIG. 20A--; "FIG. 16B (Contd.)" has been revised to change the figure label to now read --FIG. 20B--; "FIG. 16C" has been revised to change the figure label to now read --FIG. 21A--; "FIG. 16C (Contd.)" has been revised to change the figure label to now read --FIG. 21B--; "FIG. 17" has been revised to change the figure label to now read --FIG. 22--; "FIG. 18A," "FIG. 18B" and "FIG. 18C" have been revised to change the figure labels to now read --FIG. 23A--, --FIG. 23B--, and --FIG. 23C--, respectively; "FIG. 19" has been revised to change the figure label to now read --FIG. 24--; "FIG. 20" has been revised to change the figure label to now read --FIG. 25--; "FIG. 21" has been revised to change the figure label to now read --FIG. 26--; and "FIG. 22" has been revised to change the figure label to now read --FIG. 27--.

In addition, though no changes other than those previously mentioned are presented, each of FIGs. 8A, 8B, 8C, 10, 12, 14, 18A, 18B, 18C, 19, and 22 are presented in greater clarity.

No new matter has been added by way of the present proposed amendment.

**REMARKS**

All of the amendments proposed herein are presented in response to the PTO-948 (Draftsperson's Review) provided by facsimile on January 8, 2004. All of the amendments to the figures relate to the renumbering of the figures and the clarity of the figures. All of the proposed amendments to the Specification are to correctly reference the renumbered figures. It is respectfully submitted that no new matter has been added and the amendments do not affect, or surrender, any scope of any claim as originally filed.

The Applicants again request entry of the amendments as set forth herein.

Respectfully submitted,



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TLW/csw

Enclosures: Replacement Sheets (49 pages)  
Annotated Sheets Showing Changes (47 pages)

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THE EARTH CONVENTION. 25

FIG. 2A (Continued). FIG. 2C

FIG. 25-<sup>(Continued)</sup> FIG. 2D

## ANNOTATED SHEET SHOWING CHANGES

~~FIG. 2E~~ [Continued] FIG. 2E

CONSENSUS:	agcttacatg	gatgtttc	gacccaaagt	cccmatccat	gtggcyatga	cgaggccct	2160
CEF94-A:	.....	.....	.....	.....	.....	.....	2160
D6948-A:	.....	.....	.....	.....	.....	.....	2160
TY89-A:	.....	.....	.....	.....	.....	.....	2160
CONSENSUS:	caaygcyrtrt	ggcgaggattg	agaamtragh	ctttagaaagc	accaagctcg	ccactgcaca	2220
CEF94-A:	....t..t.g.	.....	....a.a..	.....	.....	.....	2220
D6948-A:	....c..c.a.	.....	....c..g..	.....	.....	.....	2220
TY89-A:	.....	.....	.....	.....	.....	.....	2220
CONSENSUS:	ccgacttggc	ctyaagttgg	ctggtcgg	wgcattyg	gttaacaccg	ggycacaactg	2280
CEF94-A:	.....	.....	.....	.....	.....	.....	2280
D6948-A:	.....	.....	.....	.....	.....	.....	2280
TY89-A:	.....	.....	.....	.....	.....	.....	2280
CONSENSUS:	ggcracgtt	atcaaacgtt	tycctcacaa	tccmcgmjac	tggacaggy	tmccytacct	2340
CEF94-A:	....a....c	.....	....c..	.....	.....	.....	2340
D6948-A:	....g....t	.....	....t..	.....	.....	.....	2340
TY89-A:	.....	.....	.....	.....	.....	.....	44
CONSENSUS:	caacctwccm	tayctyccac	cmamwgwgg	acgycagtwc	sayctkgccm	tggchghcht	2400
CEF94-A:	....a...a	...c..t...	....c..	....a..	....c..t..a	....t..a..	2400
D6948-A:	....t..a	...c..t...	....c..	....a..	....c..g..a..	....c..t..	2400
TY89-A:	....t..c	...t..c...	....a..	....t..	....t..g...c	....a..c..	104
CONSENSUS:	mgagttcaaa	gagaccgg	aactcgarr	ygcgttsmgw	gcmatggamg	cwgwgcmma	2460
CEF94-A:	a.....	.....c.	.....	.....gag	.....a..a..a..	....a..a..c..	2460
D6948-A:	a.....	.....c.	.....	.....gag	....c..ca..a	....a..a..c..	2460
TY89-A:	c.....	.....a.	.....	.....aga	....t..gct..a..c..	....t..t..a..	164
CONSENSUS:	cgtsgaccca	ytrttccrmt	cwgcdctcmr	bgtsttcatg	tggytggat	araayggat	2520
CEF94-A:	...g.....	c.a.....aa.	....t..a..	....ag	....t..g.....	....c.....	2520
D6948-A:	...g.....	c.g.....aa.	....t..g..	....ag	....c..g.....	....c.....	2520
TY89-A:	...c.....	t.g.....gc.	....a..t..	....ca	....g..c.....	....t..t..a..	224

## Proposed Amendment

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## **ANNOTATED SHEET SHOWING CHANGES**

Fig. 2F  
Fig. 2G (continued)

## ANNOTATED SHEET SHOWING CHANGES

~~FIG. 2A Contd.~~

CONSENSUS:	accccaagcy ttccatagacg	aagtyggccar rgtcttatgaa	atcaaaccatg grcgtggyc	3000
CEF94-A:	t.....t	t.....a	.....a.....	3000
D6948-A:	c.....c	c.....a	.....c.....	3000
TY89-A:	c.....c	c.....g	.....g.....	704
CONSENSUS:	maaccargar cagatgaarg	ayctgctcyt gactgcgtg	gagatgaagc atcgcaatcc	3060
CEF94-A:	a.....a..a	a.....a..t	.....t.....	3060
D6948-A:	c.....a..a	t.....a..c	.....c.....	3060
TY89-A:	a.....g..g	g.....g..c	.....c.....	764
CONSENSUS:	caggcggtct cyaccaaaggc	cmaagccaaa accccaatgt	ccawcacaga gaccccc	3120
CEF94-A:	t.....t	c.....c	.....a.....	3120
D6948-A:	c.....c	c.....a	.....a.....	3120
TY89-A:	c.....c	a.....a	.....t.....	824
CONSENSUS:	wcggctgggc cgctggatca	ggrcbgtctc tgayaggac	ytkgagttag gywccctgg	3180
CEF94-A:	t.....t	a.c.....t	.....c.t.....	3180
D6948-A:	t.....t	g.t.....t	.....c.t.....	3180
TY89-A:	a.....a	a.g.....a.g	.....t.g.....	884
CONSENSUS:	gtctcccgac accaccggcg	caggygtgga	caccaattmr kmmhtaswrm atyccsaatt	3240
CEF94-A:	.....t	.....t	.....cg	3240
D6948-A:	.....c	.....c	.....cg	3240
TY89-A:	.....t	.....t	.....aa	944
CONSENSUS:	ggatccgttc	gggggtcccc		3260
CEF94-A:	.....	.....		3260
D6948-A:	.....	.....		3260
TY89-A:	.....	.....		964

~~FIG. 2B~~ FIG. 3A

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CONSENSUS: ggatacgtg ggtctgaccc tctggagaatc acgaattaaac gtggcttacta gggggatrm 60  
CEF94-B: .....  
D6948-B: .....

CONSENSUS: ccrccgctrq ctgccacgtt agtggtcttctt cttcttgatg attcttrccac catggatgac 120  
CEF94-B: ...g.....g.....  
D6948-B: ...a.....a.....

CONSENSUS: rtttcaaya gtccacaggc gcgaaggcamg atmtcagcag cgttcggcat aaagcttacw 180  
CEF94-B: a.....c.....  
D6948-B: g.....t.....

CONSENSUS: gctggacarg aygtggaaaga actcytgatc cctaargtYT ggggccacc tgaggatccs 240  
CEF94-B: .....a.....c.....  
D6948-B: .....g.....t.....

CONSENSUS: ytkgcccagcc ctagtcgwct ggcmmaagtttc ctcagrrara acggctacaar rrttytgcag 300  
CEF94-B: c.t.....a...  
D6948-B: t.g.....t..

CONSENSUS: ccacggcttc trccyggaaa ttagggatgat gagaccgayc aaatactccc wgacyttagcw 360  
CEF94-B: .....g..c.....  
D6948-B: .....a..t.....

CONSENSUS: tggatgmgrc agatagargg rgctgtttta aaaccmacyc tattctccc yattggagay 420  
CEF94-B: .....c.a.....a..  
D6948-B: .....a.g.....g..

CONSENSUS: caggagtact tccwaarta ctacccaaca caycgccccka gcaaggaraa gcccaaatgcg 480  
CEF94-B: .....a..g.....  
D6948-B: .....t..a.....

FIG. 3B  
FIG. 28 (CONT'D) FIG. 3B

CONSENSUS:	tacccggc	ayatccg	actcaagg	atgatyta	tgtttctcca	ggttccmagg	540		
CEF94-B:	.....a.	.c.....c.	.....	.....t..c	.....	.....a...	540		
D6948-B:	.....c..	.t.....t..	.....	.....c..t	.....	.....c...	540		
CONSENSUS:	gcccammgakr	rcctwaarga	tgargtma	ctmytracc	aaaacatwag	rgayaargcc	600		
CEF94-B:	....ac..gg	g...a..g...	a..a...	...ct.g...	.....a..	g..c..g...	600		
D6948-B:	....ca..ta	a...t..a..	....g..c...	..ac.a...	....t..	a.t..a...	600		
CONSENSUS:	tayggratg	ggacctata	gggacargcm	acymgacttg	tkgyatgaa	rgaggttygcc	660		
CEF94-B:	..t..a.....	.....a..a	...tc.....	...g..c..	g.....c..	.....c...	660		
D6948-B:	..c..g.....	.....g..c	..ca.....	..t..t.....	a.....t..	.....t...	660		
CONSENSUS:	actggragaa	acccaaaca	rgattc	cata	aagcttgggt	acacyttga	gaggcatm	gcs	720
CEF94-B:	.....a....	.....g....	.....	.....t....	.....	.....c..g	.....	720	
D6948-B:	.....g....	.....a....	.....	.....c....	.....	.....a..c	.....	720	
CONSENSUS:	cagctactg	acatcacwy	accggtaggc	ccaccgggtg	aggatgacaa	gccctgggt	780		
CEF94-B:	.....	.....ac..	.....	.....	.....	.....g	.....	780	
D6948-B:	.....	.....tt..	.....	.....	.....	.....a	.....	780	
CONSENSUS:	ccactcacaa	grgtccgtc	amggatgtg	gtwctgacgg	gmgacgtaga	tggsgamt	tt	840	
CEF94-B:	.....a..	.....c..	.....	.....a..	.....a..	.....c..c..	.....	840	
D6948-B:	.....g..	.....a..	.....	.....t..	.....c..	.....g..a..	.....	840	
CONSENSUS:	gaggttgarg	aytaccttcc	caaata	caac	ctcaagtcat	caagtggact	rccmtatgtw	900	
CEF94-B:	.....a..	.....t..	.....	.....	.....	.....a..a..a	.....	900	
D6948-B:	.....g..	.....c..	.....	.....	.....	.....g..c..t..	.....	900	
CONSENSUS:	ggtcgaccca	aaggagarac	watggsgag	atgatagcy	tmtcraacca	gtttcty	maga	960	
CEF94-B:	.....	.....g..	.....a..	.....	.....t..	.....c..a..	.....	960	
D6948-B:	.....	.....a..	.....t..	.....g..	.....c..	.....a..q..	.....	960	

~~FIG. 2B~~ ~~Continued~~ FIG. 3C

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CONSENSUS: gagctatcar crctgytgaa gcarggtgca gggacacaarg ggtcraacaa gaagaagctr 1020  
CEF94-B: .....a.....a .a....t.... .a.....t.....a.....g. ....a.....g. ....a.....a 1020  
D6948-B: .....g ..g...c.... .g.....a. ....g.....a. ....g.....g 1020

CONSENSUS: ctcagcatgy taagtgacta ytggtaactta tcatgyggc ttttgttcc maaggctgar 1080  
CEF94-B: .....t.....t.....c.....t.....c.....t.....a.....a 1080  
D6948-B: .....c.....c.....c.....c.....c.....c.....g 1080

CONSENSUS: aggtacgaca aaagyacatg gctcaccaag acccgkaaca tatggtcagc tccatcmcca 1140  
CEF94-B: .....t.....t.....g.....t.....t.....c.....c.....a..... 1140  
D6948-B: .....c.....c.....t.....t.....t.....c.....t.....a..... 1140

CONSENSUS: acacacctca tgatctcwat gatmacctgg cccgtgtatgt ccaayagccc aaayaacgtg 1200  
CEF94-B: .....t.....t.....c.....t.....c.....c.....t.....t..... 1200  
D6948-B: .....a.....a.....a.....a.....a.....t.....t.....c..... 1200

CONSENSUS: ttgaacattg arggtgtcc rtcactctac aarttcaacc cgattyagg wgggytraac 1260  
CEF94-B: .....a.....a.....a.....a.....a.....c.....a.....t.g... 1260  
D6948-B: .....g.....g.....g.....g.....g.....t.....t.....c.a... 1260

CONSENSUS: aggatcgtsq agtggatawt ggcyccggaw gaacccaagg cyytwgtata tgckgacaac 1320  
CEF94-B: .....c.....t.....c.....a.....a.....t.c.....t.....g..... 1320  
D6948-B: .....g.....a.....a.....t.....t.....c.t.....a.....t..... 1320

CONSENSUS: atatacattg tycactcmaa cacgtggtac tcaattgacc tagagaaggg tgaggcaaac 1380  
CEF94-B: .....c.....a.....a.....a.....a.....a.....c.....a..... 1380  
D6948-B: .....g.....t.....c.....t.....c.....t.....a.....c.t..... 1380

CONSENSUS: tgcackcgyc aacacatgca rgccgcmatg tactacatmc tyaccagg rtggtcmgay 1440  
CEF94-B: .....t.....c.....a.....a.....a.....a.....c.....a.....c 1440  
D6948-B: .....g.....t.....c.....c.....c.....c.....t.....a.....c.t 1440

CONSENSUS: aacgggacc cmatgttcaa tcacatgg gccacccttg csatgaacat tgccccwgct 1500  
CEF94-B: .....c.....a.....a.....a.....a.....c.....c.....t..... 1500  
D6948-B: .....t.....c.....g.....g.....g.....a.....a..... 1500

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FIG. 2B [Continued] FIG. 3D

CONSENSUS:	ctagtkgtgg	actcatcrtg	yctgatwatg	aacctkcaratyaagacmtatggtaaggc	1560
CEF94-B:	....g....	....g..	c.....a...	....g..a..t.....c..	1560
D6948-B:	....t....	....a..	t....t...	....t..g..c.....a..	1560
CONSENSUS:	agyggaaatg	cagccacstt	catcaacaac	cayctyytka	1620
CEF94-B:	...c....	....g..	....c..ct.g.	....g..a..t.....	1620
D6948-B:	...t....	....c..	....t..tc.t.	....c..t..a.....	1620
CONSENSUS:	tggaacytga	tgarrcarcc	yagwccagac	agcgargagt	1680
CEF94-B:	....c....	...ga..g..	c..a.....	....g....a.....	1680
D6948-B:	....t....	...ag..a..	t..t....a...	....g....a.....	1680
CONSENSUS:	ctrqgyatca	acttyaagat	tgagagggcc	attgatgaya	1740
CEF94-B:	...a..t....	....t....	....	....t..c.....	1740
D6948-B:	...g..c....	....c....	....	....c..t.....c.....	1740
CONSENSUS:	cttggtccycc	ttgcacaaacc	agggtacctg	agtgggggg	1800
CEF94-B:	....t..	....	....	....g....t.....	1800
D6948-B:	....c..	....	....	....a....c.....	1800
CONSENSUS:	ccaacttgtwg	agctkgacct	actmggrtgg	tcwgcwacwt	1860
CEF94-B:	....t..	....t..	....a..g..	....a..t..a..	1860
D6948-B:	....a..	....g..	....c..a..	....t..a..t..	1860
CONSENSUS:	tatgtgccgg	tgcttgacaa	ggaacgcyyta	ttttgytctg	1920
CEF94-B:	....	....	....c..	....t..	1920
D6948-B:	....	....	....t..	....c..	1920
CONSENSUS:	gagaayaara	gyctcaartc	caargtgggg	atcgaggcarg	1980
CEF94-B:	....c..g..	....t....g..	....a..c..	....g..a.....	1980
D6948-B:	....t..a..	....c.....a..	....g..t..	....a..t..a..	1980
CONSENSUS:	gaggcggtga	ggttggtagg	tggttggAAC	tacccactcc	2040
CEF94-B:	....	....	....	....	2040
D6948-B:	....	....	....	....	2040

FIG. 28. *Leucostethus* Figs. 3E

~~FIGURE 2B~~ FIG. 3 F

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CONSENSUS:	tccaaaccccg ttgttggct ccacctggcc gccaaggagrg ccaccggtgt ccaggcmgct	2640
CEF94-B:	.....	.....a.....
D6948-B:	.....	.....c.....
CONSENSUS:	ctttcggag caggracgag cagaccaatg ggatggagg cyccaaacacy gtccaaagaac	2700
CEF94-B:	.....a.....	.....c.....
D6948-B:	.....g.....	.....t.....
CONSENSUS:	ggccgtaaaaa tggccaaamg gcccgaacgc caaaargaga gcccggcaaya gccatgtgg	2760
CEF94-B:	.....c.....	.....g.....
D6948-B:	.....a.....	.....a.....
CONSENSUS:	gaaccactca agaaggaggac actaayccca gaccccgat	2820
CEF94-B:	.....	.....t.....
D6948-B:	.....	.....c.....
CONSENSUS:	ggcccccc	2827
CEF94-B:	.....	2827
D6948-B:	.....	2827

FIG. 3x4A

CONSENSUS:	PGFPGSIVGA	HYTLQSNGNY	KFDQMLLTAQ	NLPASYYCR	LVSRSLTVRSLVYAL	120
CEF94-PP:	.....	.....	.....	.....	.....	120
D6948-PP:	.....	.....	.....	.....	.....	120
TY89-PP:	.....	.....	.....	.....	.....	120

CONSENSUS:	NGTINAVTFQ	GSLSELTDVS	YNGLMSATAN	INDKIGNVLV	GEGVTVLSSLP	TSYDLGYVRL	180
CEF94-PP:	...	...	...	...	...	...	180
D6948-PP:	...	...	...	...	...	...	180
TY89-PP:	---	---	---	---	---	---	---

CONSENSUS:	S.GGELVFQT	SV.GL.LGAT	IYLIGFDGTA	VITRAVAA.N	GLT.GTDNL.	PEN.VIPT.E	300
CEF94-PP:	.V.....	.H..V....	.....	.....N.	...T....L	...L....N.	300
D6948-PP:	.I.....	Q..I....	.....	...D.	...A....M	...I....S.	300
TY89-PP:	---	---	---	---	---	---	---

~~FIG. 3A. Corrected~~

FIG. 4B

CONSENSUS:	DFREYFMEVA	DLNSPIKIAG	AFGFKDIIRA	·RRIAVPVVS	TLFPAAPLA	HAIGEVDYL	480
CEF94-PP:	.....	.....	.....	I.....	.....	.....	480
D6948-PP:	.....	.....	.....	L.....	.....	.....	480
TY89-PP:	.....	.....	.....	.....	.....	.....	.....
CONSENSUS:	LGDEAQAAASG	TARAASGKAR	AASGRIRQLT	LAADKGYEVV	ANLEQVPQNP	VVDGILASPQ	540
CEF94-PP:	.....	.....	.....	.....	.....	.....	540
D6948-PP:	.....	.....	.....	.....	.....	.....	540
TY89-PP:	.....	.....	.....	.....	.....	.....	540
CONSENSUS:	.LRGAHNLD C	VLREGATLFP	VVITTEDAM	TPKALNSKMF	AVIEGVREDL	OPPSORGSEI	600
CEF94-PP:	V.....	.....	.....	.....	.....	.....	600
D6948-PP:	I.....	.....	.....	.....	.....	.....	600
TY89-PP:	.....	.....	.....	.....	.....	.....	600
CONSENSUS:	RTLSGHRYVG	YAPDGWLPLE	TGRDYTVVPI	DDWDDSIML	SKDPIPPIVG	NSGNLAIAYM	660
CEF94-PP:	.....	.....	.....	.....	.....	.....	660
D6948-PP:	.....	.....	.....	.....	.....	.....	660
TY89-PP:	.....	.....	.....	.....	.....	.....	660
CONSENSUS:	DVFRPKVPIH	VAMTGALNA.	GEIE.VSERS	TKLATAHRLG	LKLAGPAGFD	VNTG.NWATF	720
CEF94-PP:	.....	.....	C.....	K.....	.....	P.....	720
D6948-PP:	.....	.....	Y.....	N.....	.....	S.....	720
TY89-PP:	.....	.....	.....	.....	.....	.....	.....
CONSENSUS:	IKRFPHNPRD	WDRLPYLNLP	YLPPNAGRQY	HLAMAASEFK	ETPELESAVR	AMEAAANVDP	780
CEF94-PP:	.....	.....	.....	.....	.....	.....	780
D6948-PP:	.....	.....	.....	D.....	.....	.....	780
TY89-PP:	.....	.....	T.....	F.....L.....	D.....	D.....	58
CONSENSUS:	LFQSALSVM	WLEENGIVTD	MANFALSDPN	AHRMRNFLAN	APQAGSKSQR	AKYGTAGYGV	840
CEF94-PP:	.....	.....	.....	.....	.....	.....	840
D6948-PP:	.....	.....	.....	.....	.....	.....	840
TY89-PP:	.....	R.....Q.....	.....	.....	K.....	.....	118

~~FIG. 3A~~ ~~FIG. 3B~~ ~~FIG. 3C~~ ~~FIG. 3D~~ ~~FIG. 3E~~ ~~FIG. 3F~~ ~~FIG. 3G~~ ~~FIG. 3H~~ ~~FIG. 3I~~ ~~FIG. 3J~~ ~~FIG. 3K~~ ~~FIG. 3L~~ ~~FIG. 3M~~ ~~FIG. 3N~~ ~~FIG. 3O~~ ~~FIG. 3P~~ ~~FIG. 3Q~~ ~~FIG. 3R~~ ~~FIG. 3S~~ ~~FIG. 3T~~ ~~FIG. 3U~~ ~~FIG. 3V~~ ~~FIG. 3W~~ ~~FIG. 3X~~ ~~FIG. 3Y~~ ~~FIG. 3Z~~ ~~FIG. 4A~~ ~~FIG. 4B~~ ~~FIG. 4C~~ ~~FIG. 4D~~ ~~FIG. 4E~~ ~~FIG. 4F~~ ~~FIG. 4G~~ ~~FIG. 4H~~ ~~FIG. 4I~~ ~~FIG. 4J~~ ~~FIG. 4K~~ ~~FIG. 4L~~ ~~FIG. 4M~~ ~~FIG. 4N~~ ~~FIG. 4O~~ ~~FIG. 4P~~ ~~FIG. 4Q~~ ~~FIG. 4R~~ ~~FIG. 4S~~ ~~FIG. 4T~~ ~~FIG. 4U~~ ~~FIG. 4V~~ ~~FIG. 4W~~ ~~FIG. 4X~~ ~~FIG. 4Y~~ ~~FIG. 4Z~~

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CONSENSUS: EARGPTPEEA QREKDTISK KMETMGIYFA TPEWVALNGH RGSPSPGQLKY WQNTREIPDP 900  
CEF94-PP: .....  
D6948-PP: .....  
TY89-PP: .....  
..... E. 178

CONSENSUS: NEDYLDYVHA EKSRLASEEQ ILRAATSIYG APGQAEPQQA FIDEVAKVYE INHGRGPNQE 960  
CEF94-PP: .....  
D6948-PP: .....  
TY89-PP: ..... P..... V..... R.....  
..... 238

CONSENSUS: QMKDLLTAM EMKHRNPRRA PPKPKPKPNA PTQRPPGRLG RWIRTVSDED LE 1012  
CEF94-PP: ..... L.....  
D6948-PP: ..... A.....  
TY89-PP: ..... S.....  
..... 290

**FIG. 3A**

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CONSENSUS:	MSD.FNSPQA RS.ISAAFGI KPTAGQDVVE LLIPKVVWPP EDPLASPSRL AKFLRENGYK	60
CEF94-VP1:	...I.....T.....	60
D6948-VP1:	...V.....K.....	60
CONSENSUS:	.LQPRSLPEN EEEYETDQILP DIAWMRQIEG AVIKPTISLP IGDQEYFPKY YPTHRSKEK	120
CEF94-VP1:	V.....	120
D6948-VP1:	I.....	120
CONSENSUS:	PNAYPPDIAL LKQMIIYLFQ VPEA...LKD EVTLTQNIR DKAYGSGYM GOATRLVAMK	180
CEF94-VP1:	.......	180
D6948-VP1:	.......	180
CONSENSUS:	EVATGRNPNK DPLKLGYTFE SIAQLLDITL PVGPPGEDDK PWVPLTRVPS RMLVLTGDVD	240
CEF94-VP1:	.......	240
D6948-VP1:	.......	240
CONSENSUS:	G.FEVEDYLP KINLKSSSSL PYVGRTKGET IGEMIAISNQ FLRELS.LLK QGAGTKGSNK	300
CEF94-VP1:	.D.....	300
D6948-VP1:	.E.....	300
CONSENSUS:	KKLLSMLSDY WYLSCGILLFP KAERYDKSTW LTTRTRNIWSA PSPTHLMISM ITWPVMSNSP	360
CEF94-VP1:	.......	360
D6948-VP1:	.......	360
CONSENSUS:	NNVLNIEGCP SLYKFNPFRG GLNRIVEWI AP.EPKALVY ADNIYIVHSN TWYSIDLEKG	420
CEF94-VP1:	.......	420
D6948-VP1:	.......	420
CONSENSUS:	EANCTRQHMQ AAMYIILTRG WSDNGDPMFN QTWATFAMNI APALVVDDSSC LIMNLQIKTY	480
CEF94-VP1:	.......	480
D6948-VP1:	.......	480
CONSENSUS:	GQGSIGNAATF INNHLLSTLV LDQWNLM.QP .PDSEEFKSI EDKLGINFKI ERSIDDIRGK	540
CEF94-VP1:	.......	540
D6948-VP1:	.......	540

~~FIG. 9B~~ ~~[cont'd]~~ FIG. 5B

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CONSENSUS:	LRQLV.LAQP GYLSGGVPE Q.SPTVELDL LGWSATYSKD LGIYVPVLDK ERLFCSAAYP	600
CEF94-VP1:	.....L.....S.....	600
D6948-VP1:	.....P.....P.....	600
CONSENSUS:	KGVENKSLKS KVGLEQAYKV VRYEALRLVG GWNYPLINKA CKNNNA.AARR HLEAKGFPLD	660
CEF94-VP1:	.....G.....G.....	660
D6948-VP1:	.....S.....S.....	660
CONSENSUS:	EFLAEWSELS EFGEAFFEGFN IKLTVT.ESL AEILN.PVPPK PPNVNRPVNT GGLKAVSNAL	720
CEF94-VP1:	.....S.....K.....	720
D6948-VP1:	.....P.....R.....	720
CONSENSUS:	KTGRYRNEAG LSGLVLLATA RSRLQDAVKA KAEAELHKHS KPDDPDADWF ERSETLSDL	780
CEF94-VP1:	.....	780
D6948-VP1:	.....	780
CONSENSUS:	EKADIASKVA HSALVETSDA LEAVQSTSVD TPKYPEVKNP QTASNPVVGL HLPAKRATGV	840
CEF94-VP1:	.....	840
D6948-VP1:	.....	840
CONSENSUS:	QAALLGAGTS RPMGMEEPTR SKNAVMAKR RQRQKESRQ.	881
CEF94-VP1:	.....Q.....P.....	881
D6948-VP1:	.....-.....-	879

**FIG. 3C 6**

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**ANNOTATED SHEET SHOWING CHANGES**

CONSENSUS:	MVSRDQTNDR	SDD.	PARSNP	TDCSVHTEPS	DANNRTGVHS	GRHP.EAHSQ	VRDLQLFDC	60
D6948-VP5:	.....	.....	E.	.....	.....	R.	.....	60
CEF94-VP5:	.....	.....	K.	.....	.....	G.	.....	60
CONSENSUS:	GGHRVRANCL	FPW.	PWINCG	CSIHTAEQWE	LQVRSDAPDC	PEPTGQLQLL	QASESESHSE	120
D6948-VP5:	.....	.....	F.	.....	.....	.....	.....	120
CEF94-VP5:	.....	.....	I.	.....	.....	.....	.....	120
CONSENSUS:	VKHT.	WWRLC	TK.	HHKRRDL	PRKPE			145
D6948-VP5:	.....	P.	.....	W.	.....	.....	.....	145
CEF94-VP5:	.....	S.	.....	R.	.....	.....	.....	145

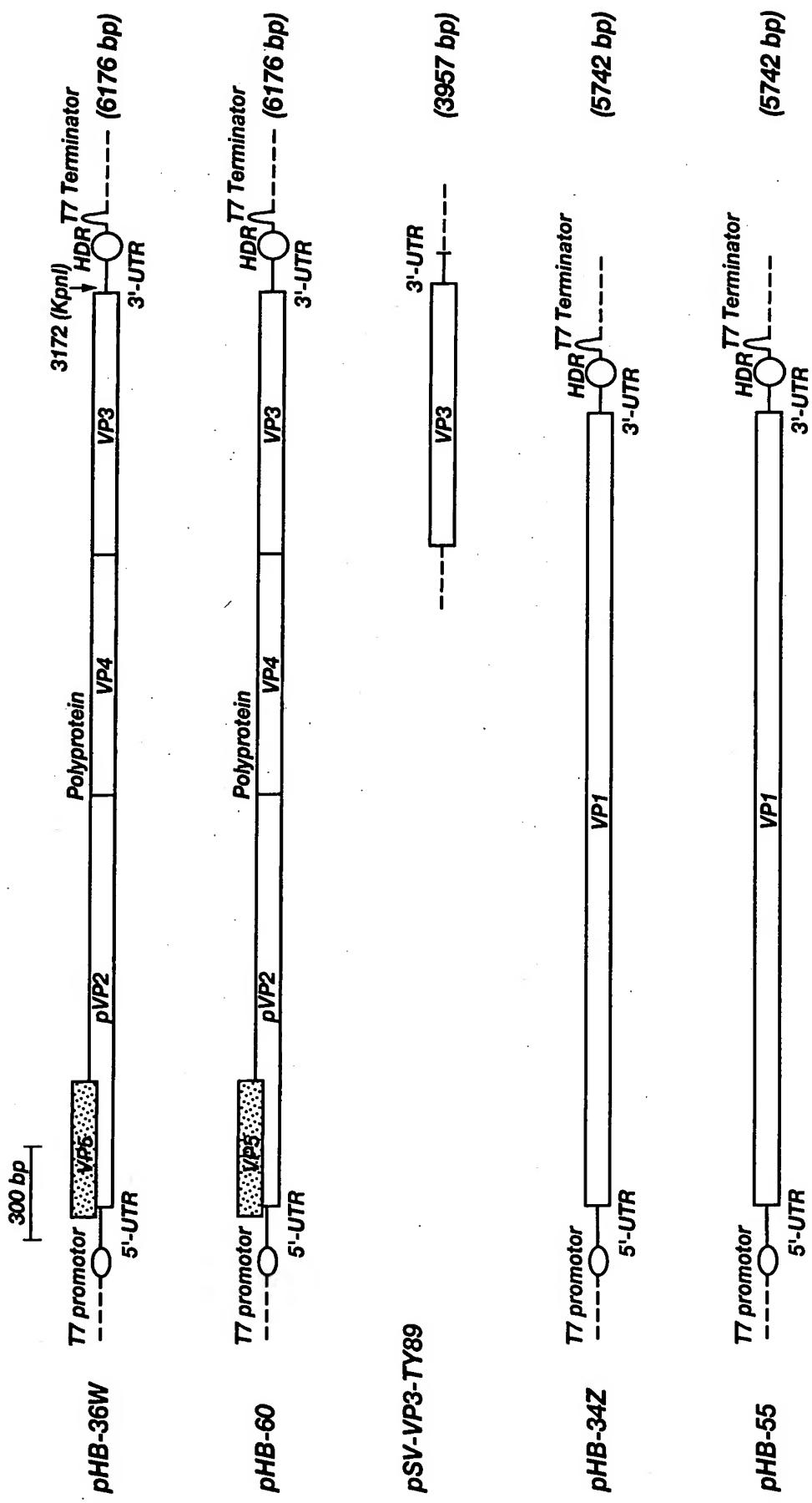


FIG. X 7

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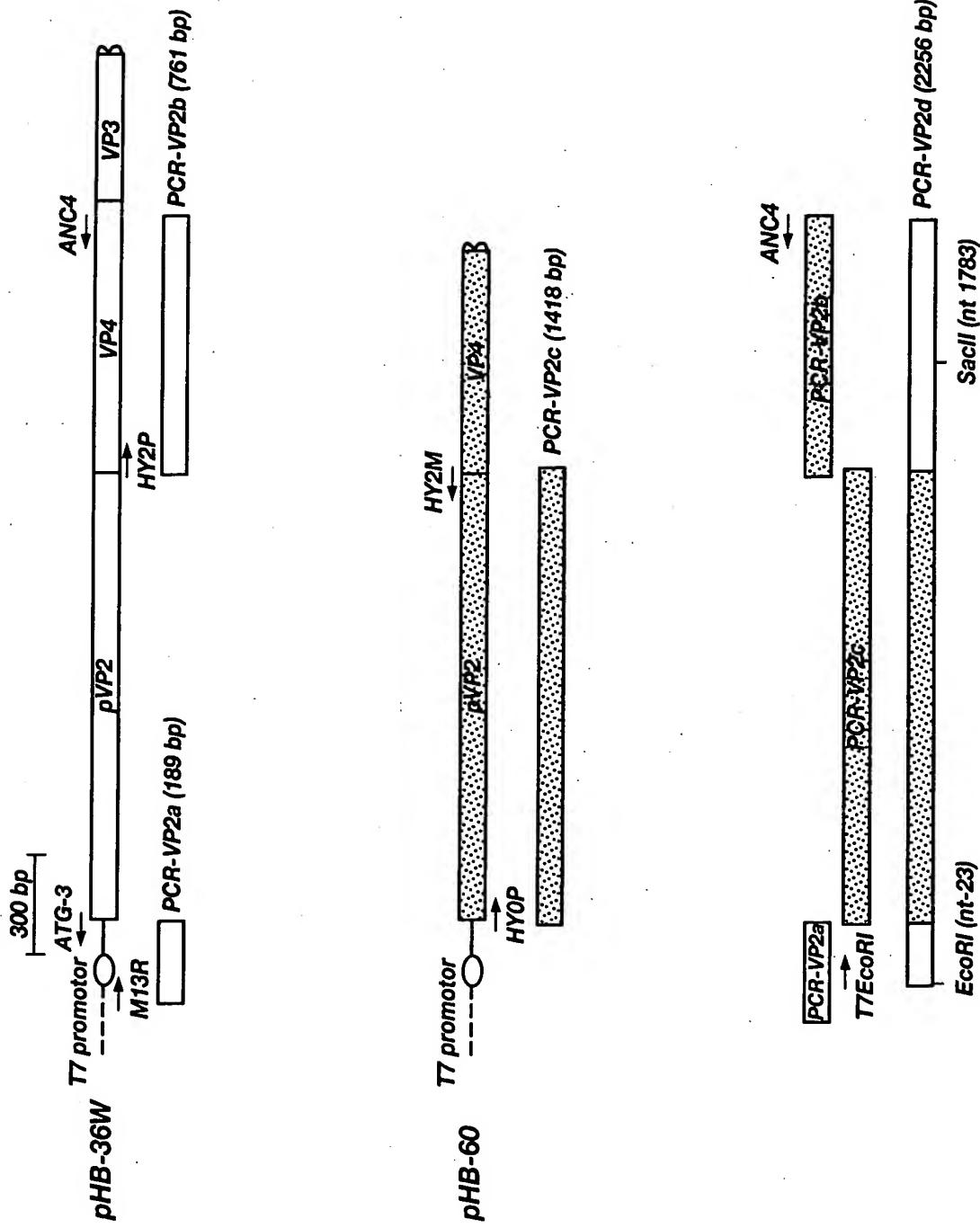


FIG. 5A 8A

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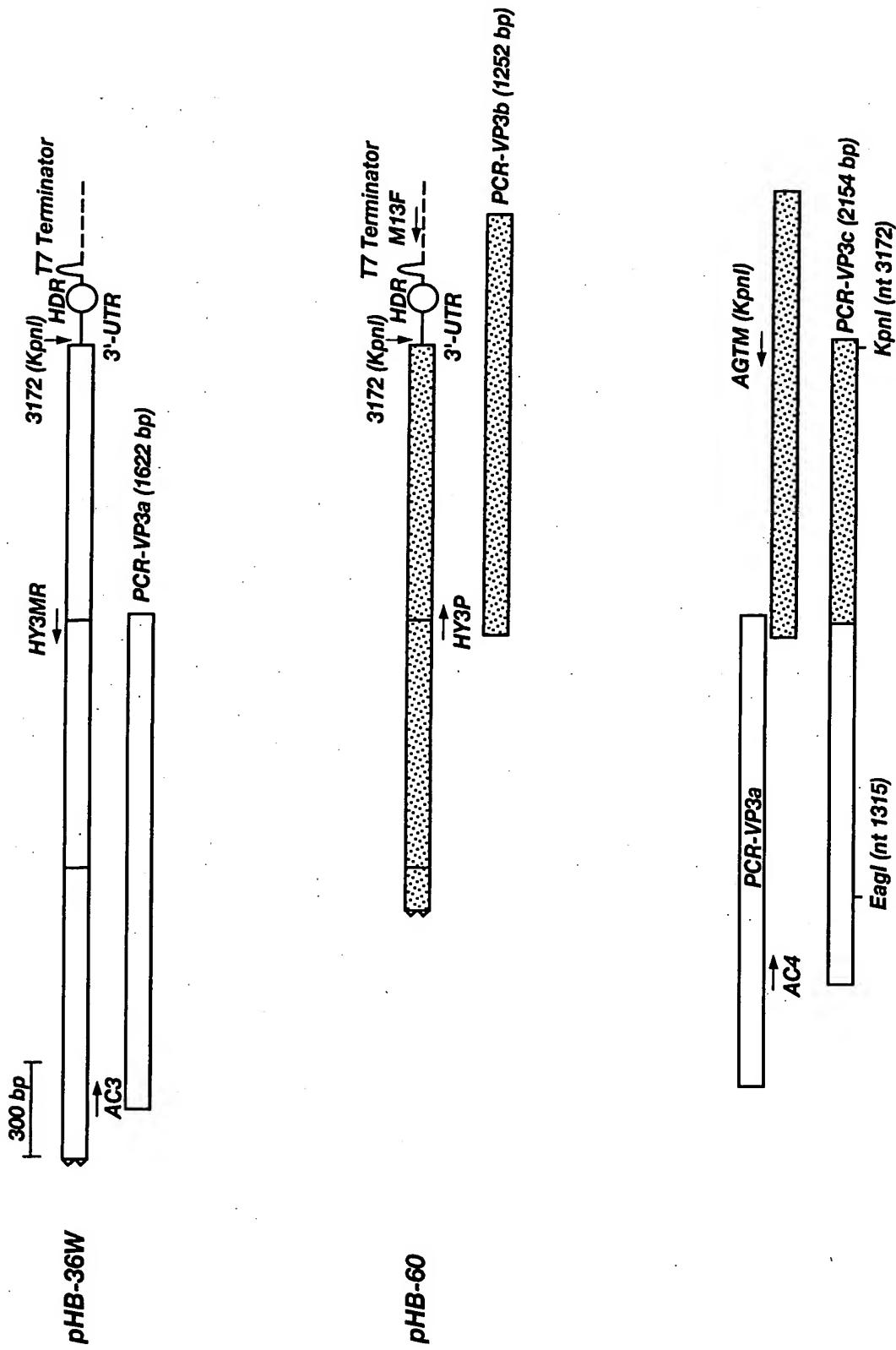


FIG. 5B 8B

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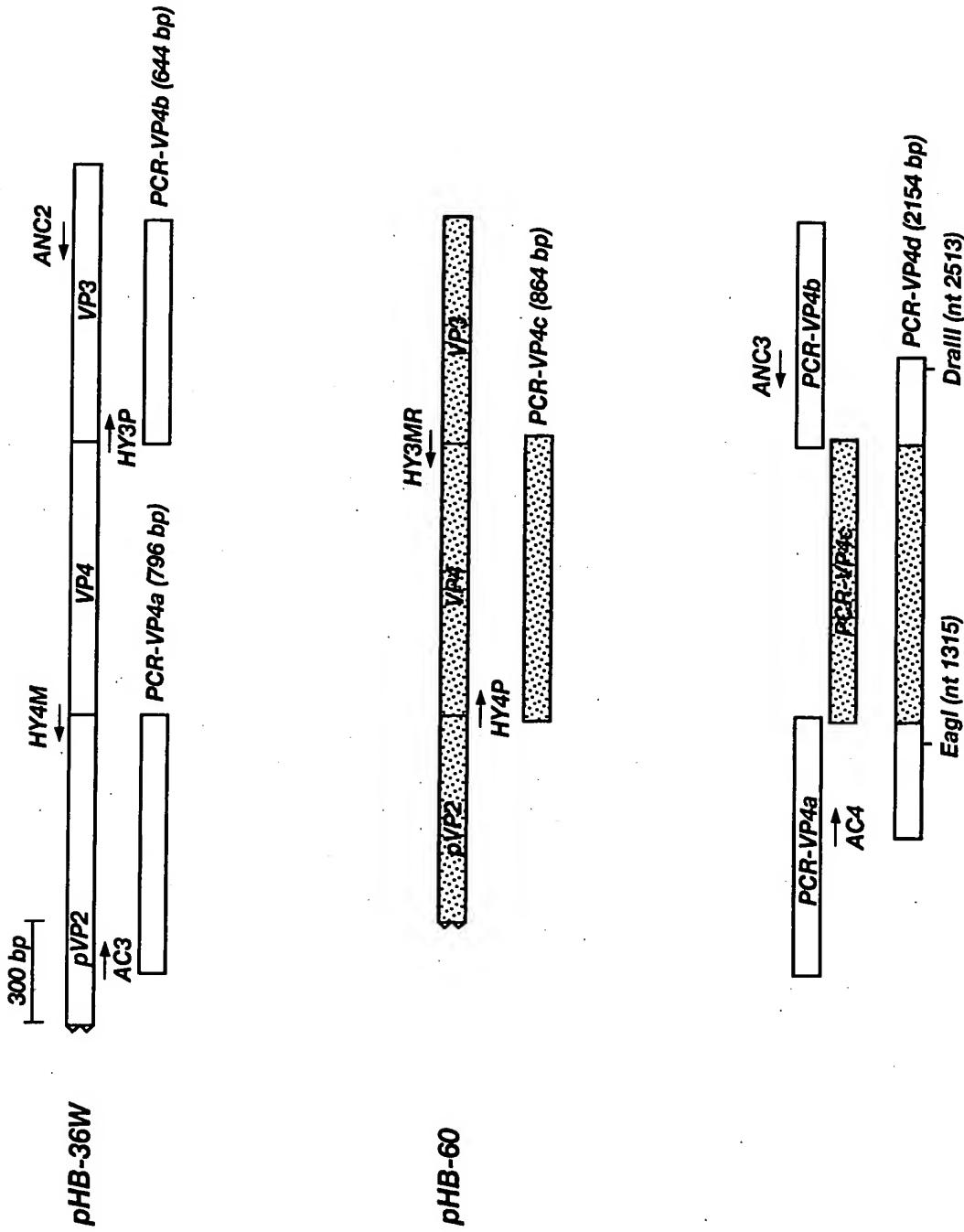


FIG. 3C 8C

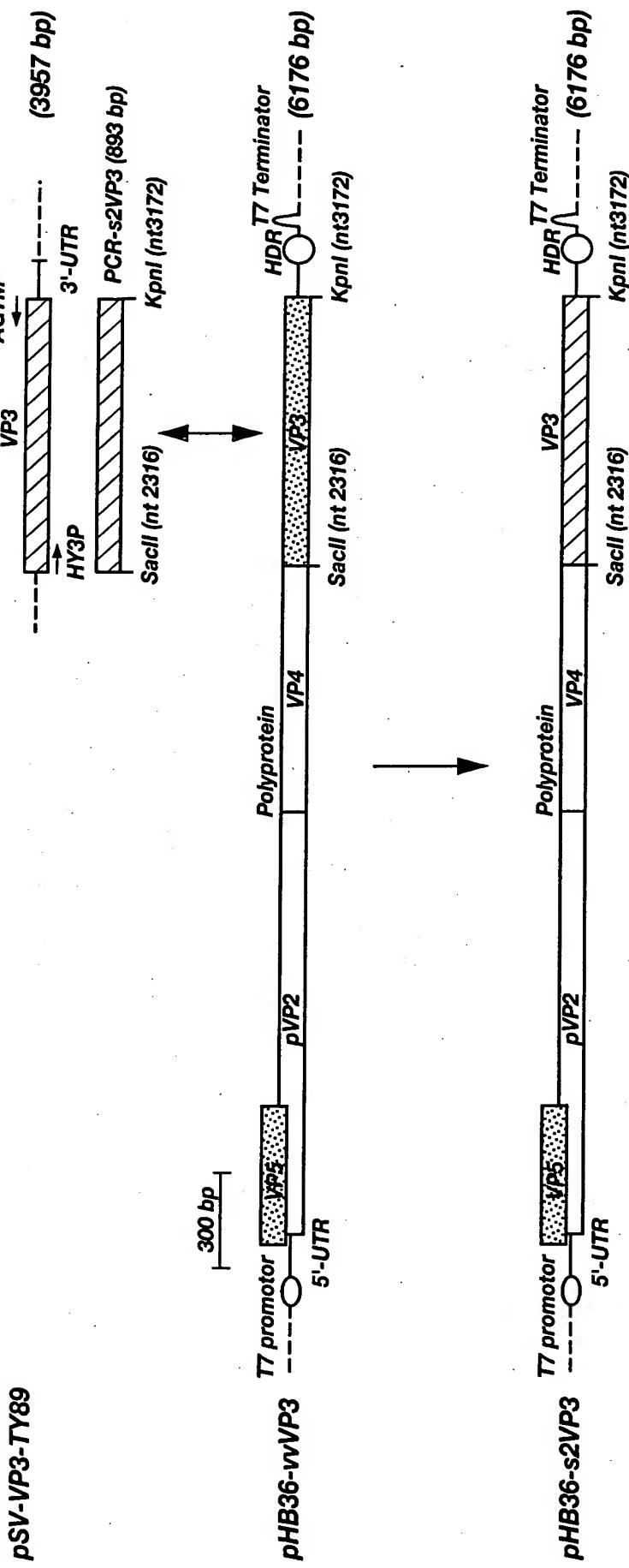


FIG. 5D & D

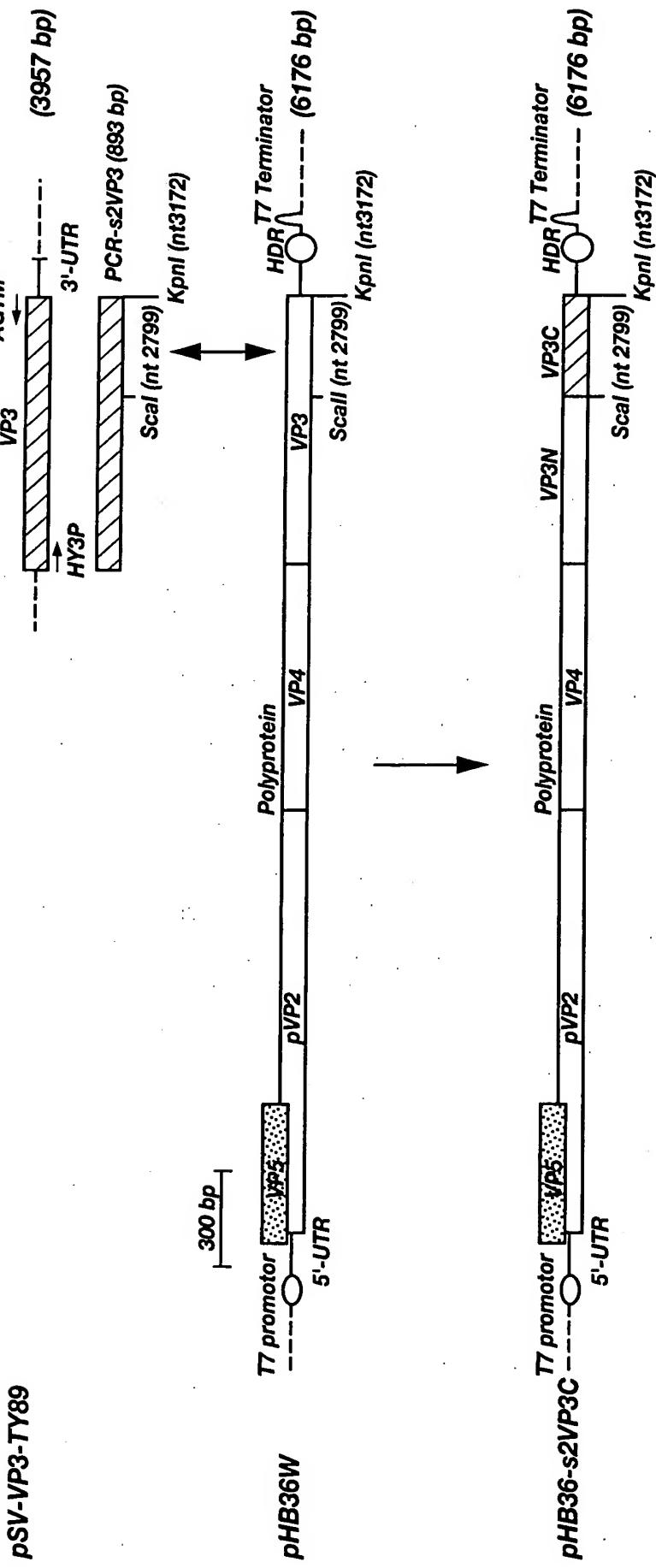


FIG. 5E 8E

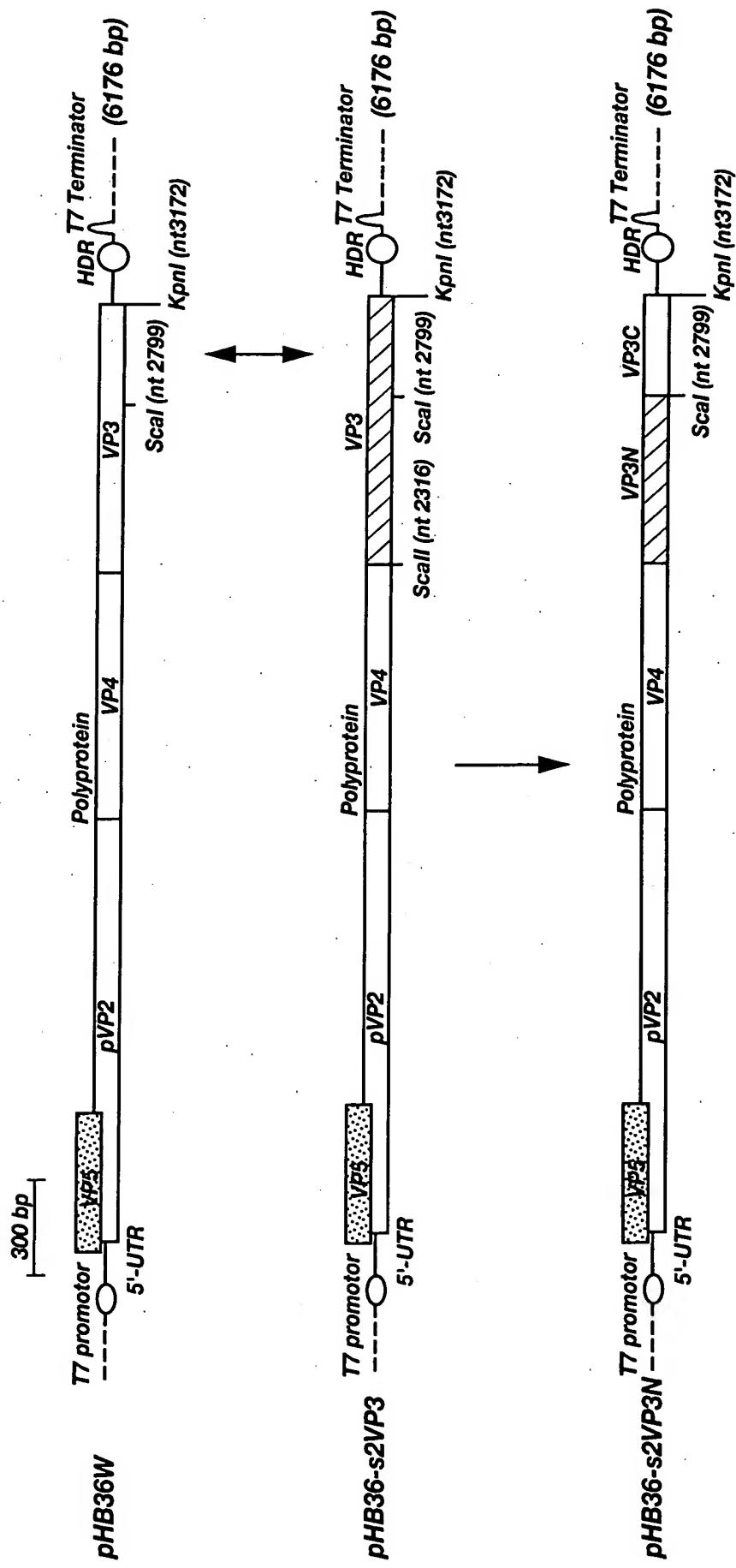
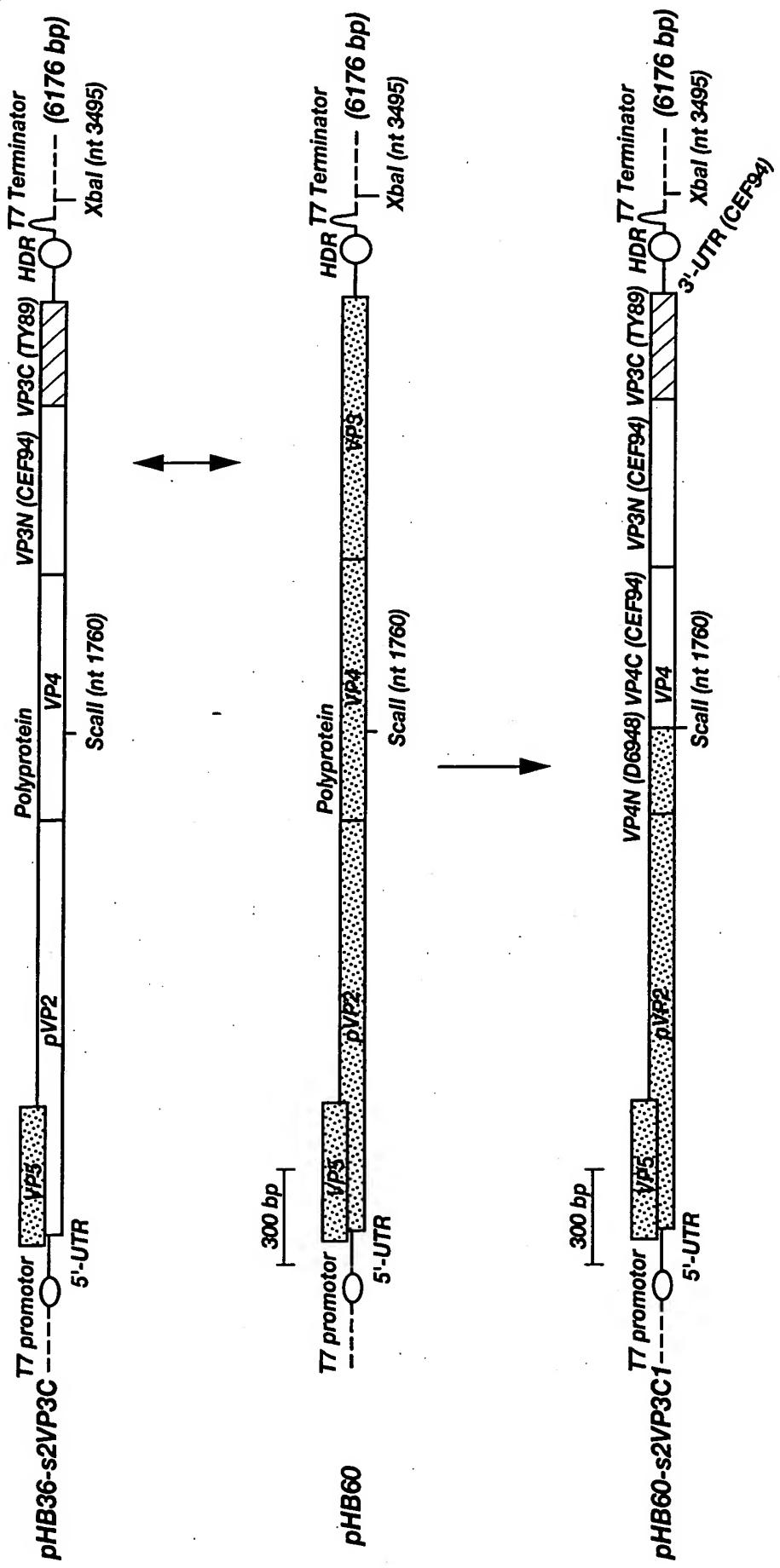


FIG. 5E 8F

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**FIG. 5G 8G**

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FIG. 6/9

VP4 → VP3

SacII

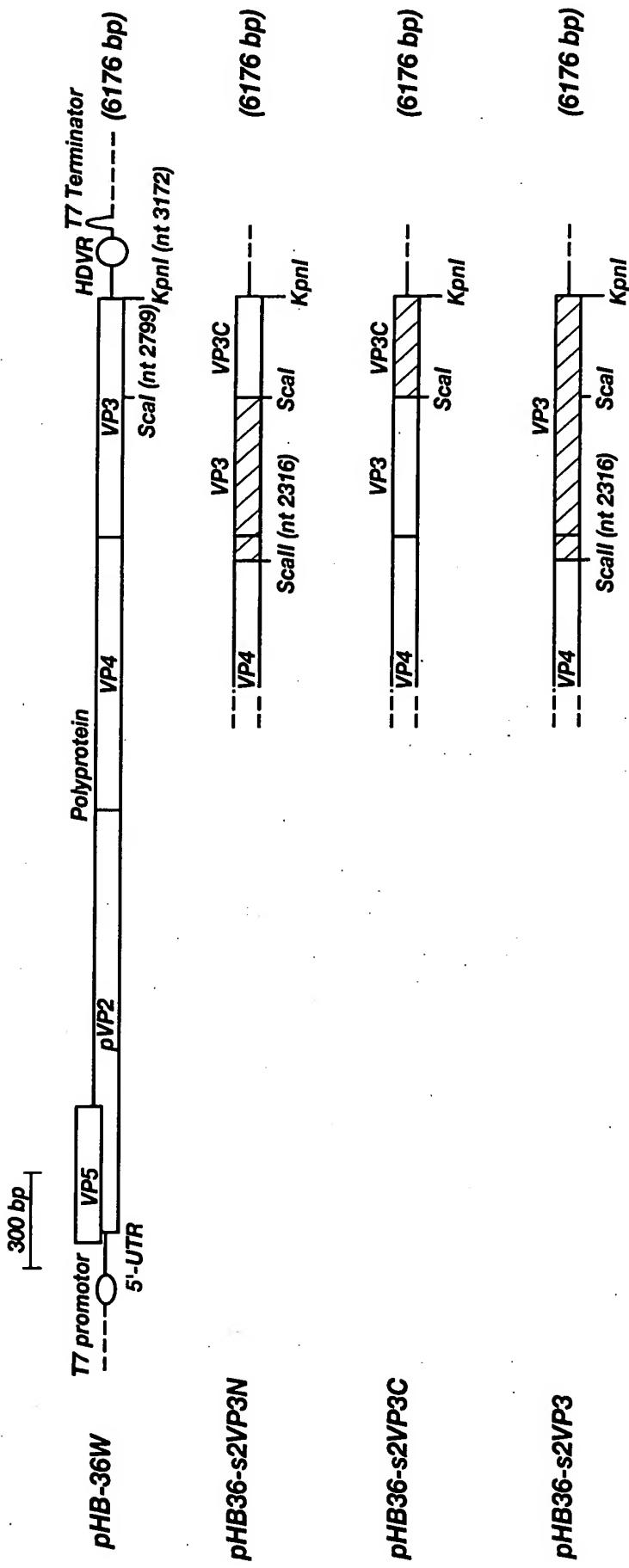


FIG. X 10

FIG. 8A 11A

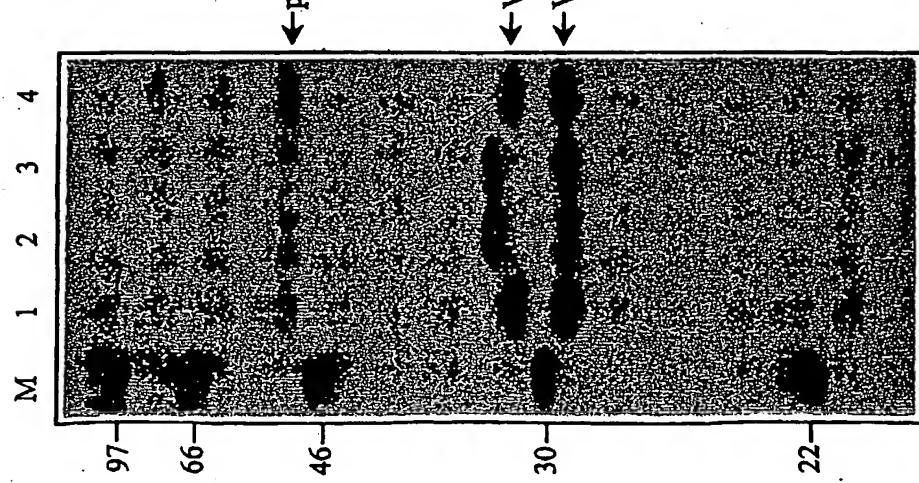


FIG. 8B 11B

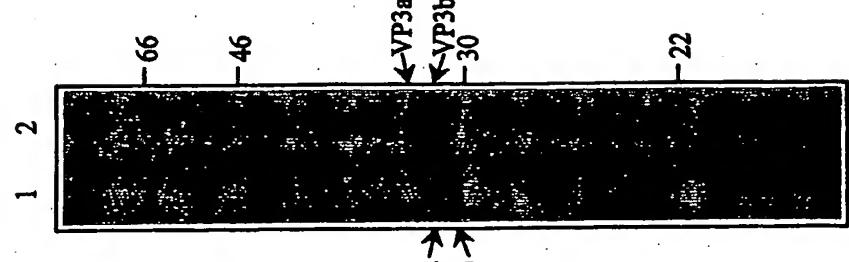
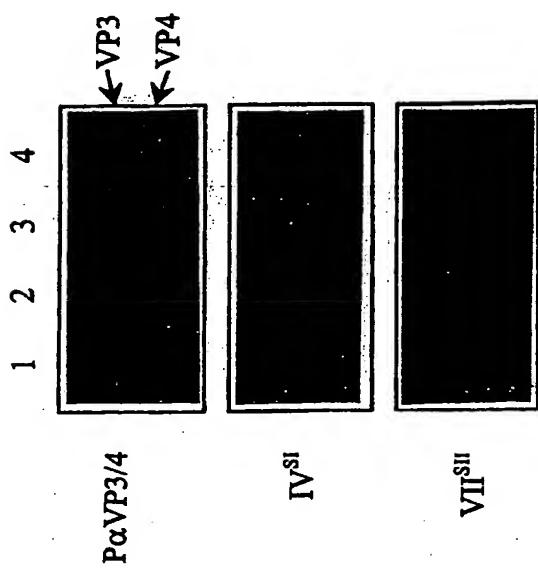


FIG. 8C 11C



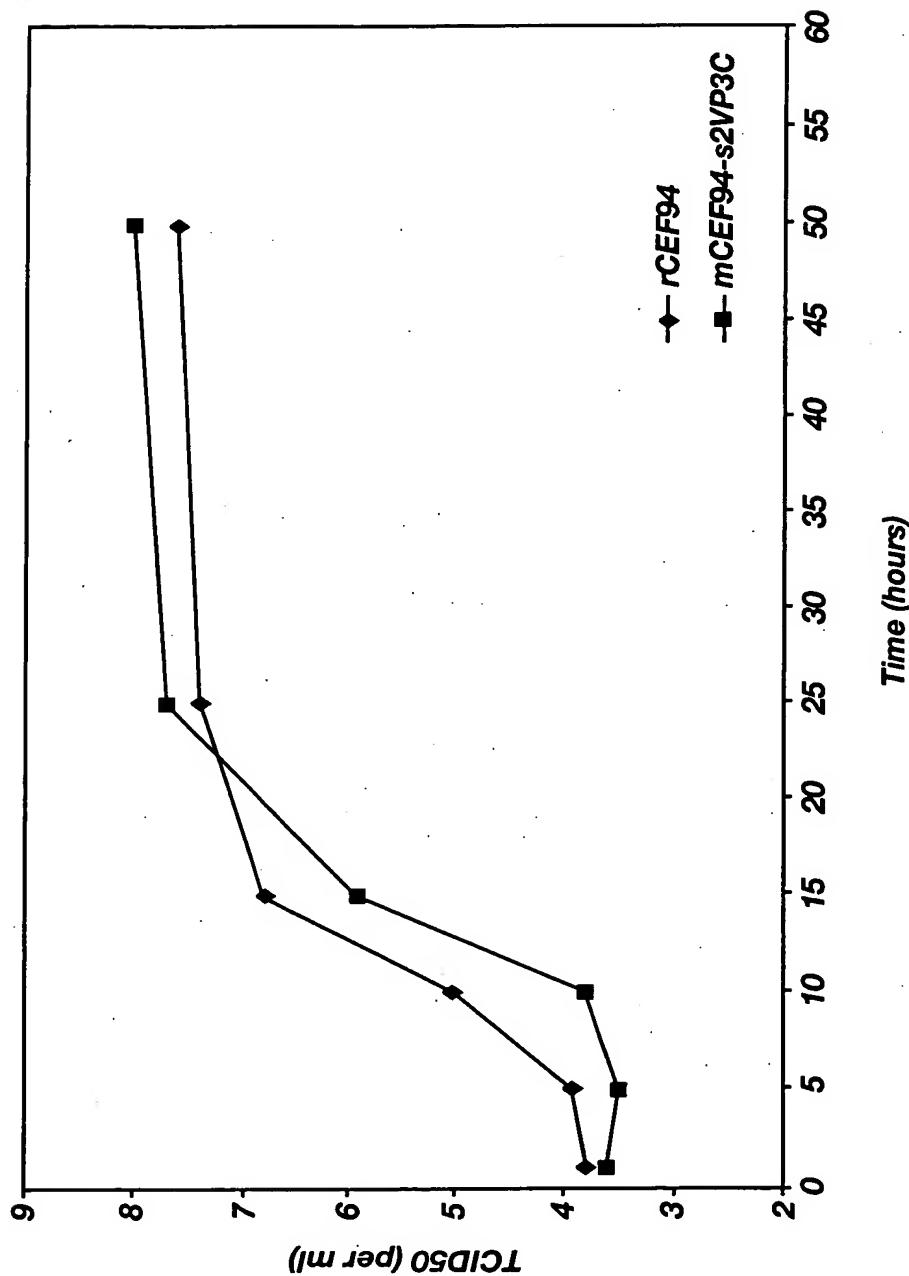
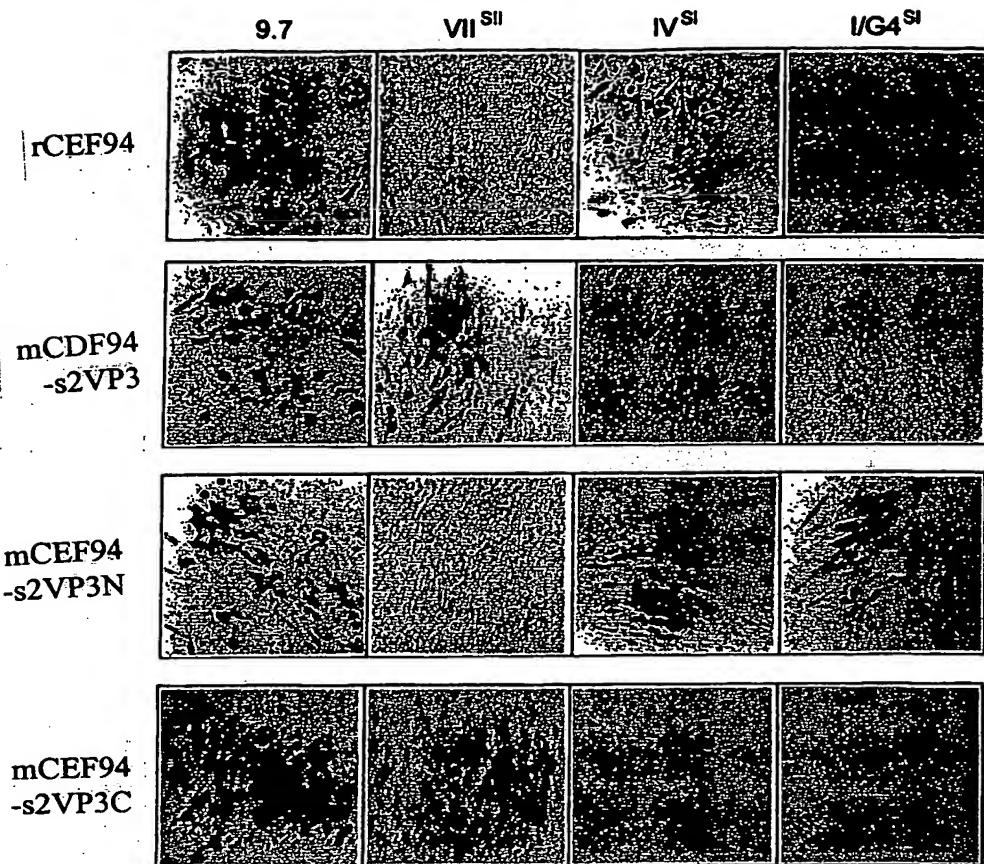


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**FIG. 10 13**



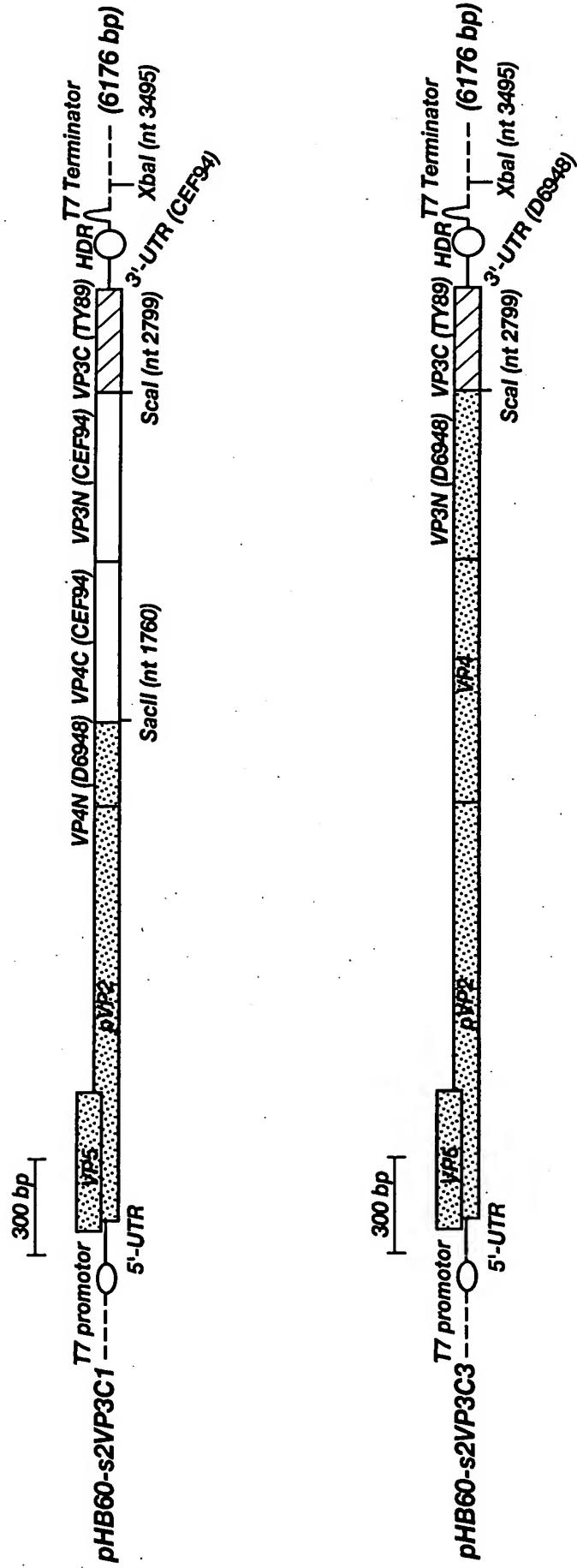
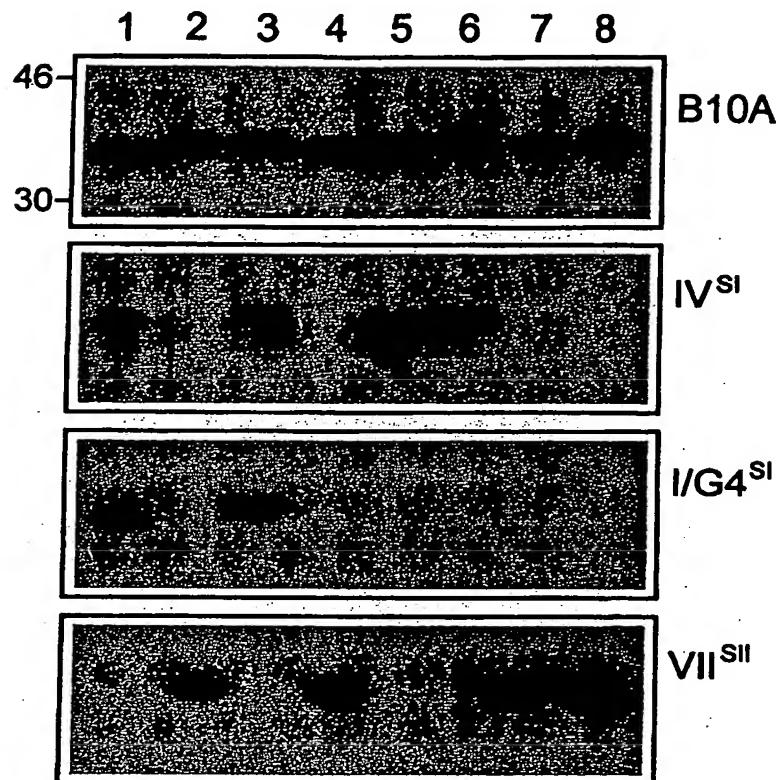


FIG. 14

**FIG. 12 15**



**FIG. 13 16**

VP4  VP3

*SacII*

CEF94-PP: 724-FPHNPRD WDRLEPYLNLP YLPPNAGRQY HLAMAASEFK ETPPELESAVR AMEAAANVDP 780  
D6948: ..... D.....  
TY89-PP: 724-..... T..... F ..L..... D...D..... 780  
..... D..... 780

CEF94-PP: LFQSALSVEM WLEENGIVTD MANFALSDPN AHRMRNFLAN APQAGSKSQR AKYGTAGYGV 840  
D6948: .....  
TY89-PP: ..R...Q.....  
..... K..... 840

*SacI*

CEF94-PP: EARGPTPEEA QREKDTRISK KMETMGIYFA TPEWVALNIGH RGPSPGQLKY WQNTREIFPDP 900  
D6948: .....  
TY89-PP: .....  
..... E.. 900

CEF94-PP: NEDYLDVHA EKSRIASEEQ ILRAATSIYG APGQAEPPOA FIDEVARVYE INHGRGPNE 960  
D6948: .....  
TY89-PP: ...P..... V..... R..... 960

CEF94-PP: QMKDLLTAM EMKHRNPRRA LPKPKPKPNA PTQRPPGRLG RWIRTVSDED LE 1012  
D6948: ..... P..... A.....  
TY89-PP: ..... P..... S..... 1012  
..... 1012

**FIG. 14 17**

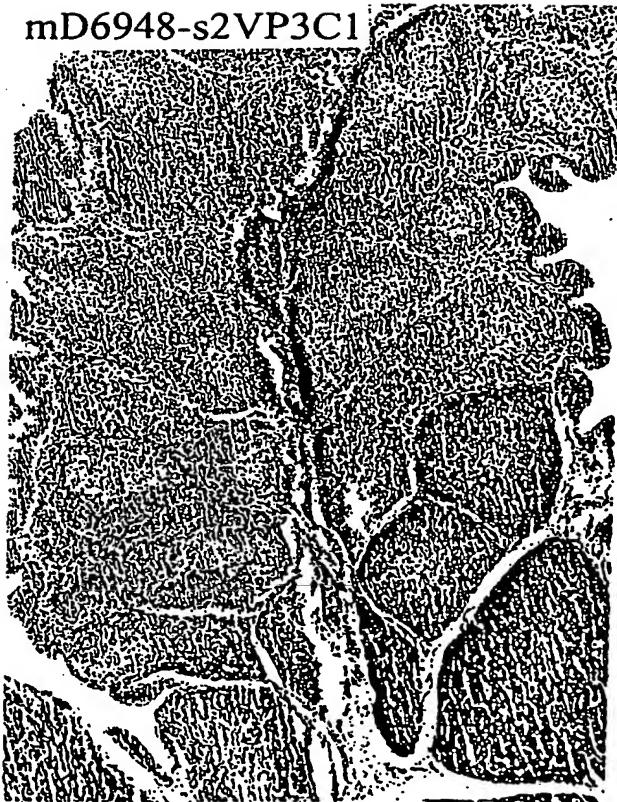
Mock



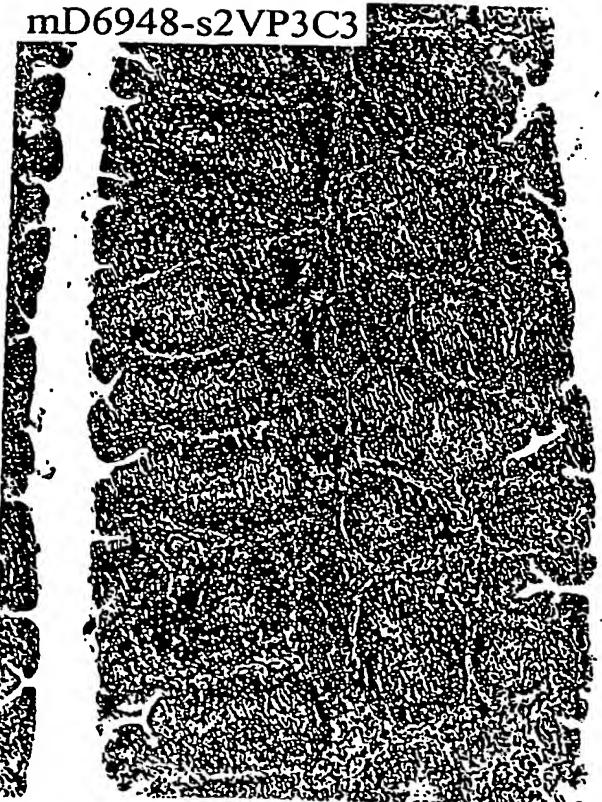
D6948

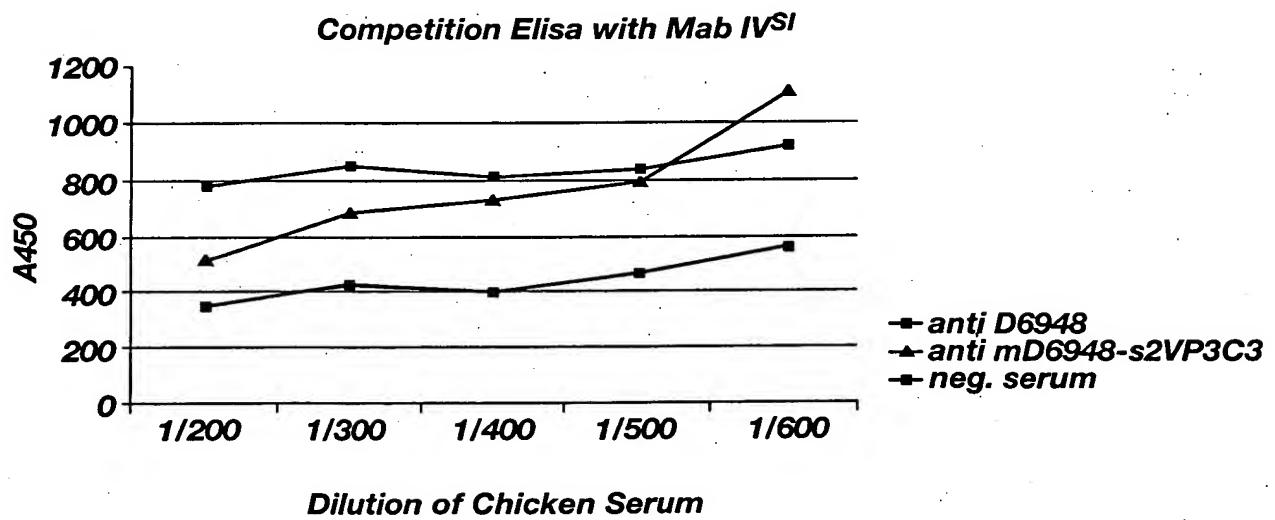
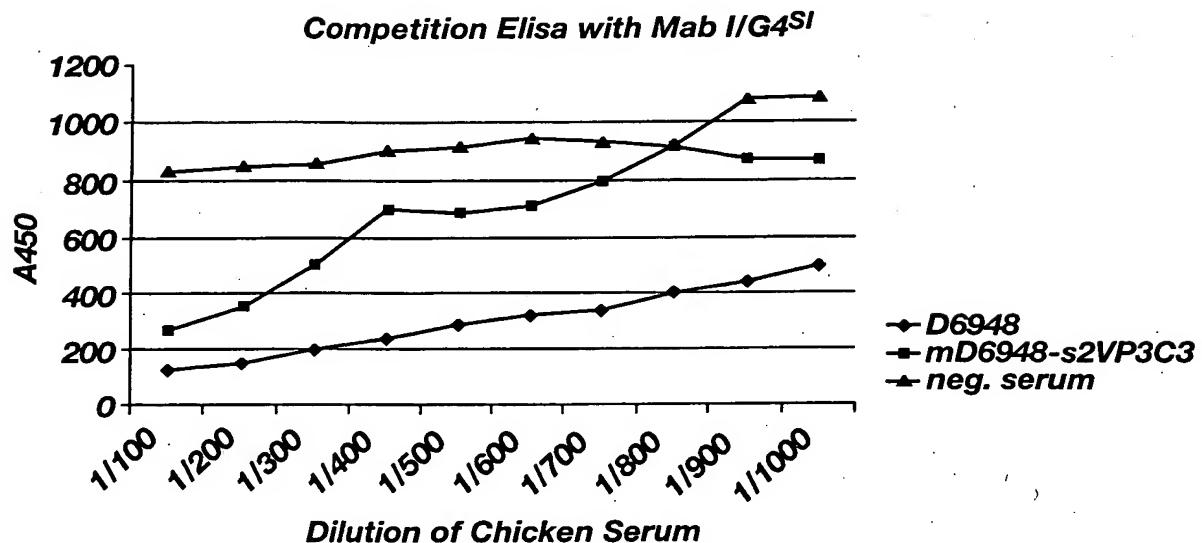


mD6948-s2VP3C1



mD6948-s2VP3C3





**FIG. 15 18**

**ANNOTATED SHEET SHOWING CHANGES**

**FIG. 19**

D6948-VP5: MLSIMVSRDQ TNDRSDDDEPA RSNPTDCSVH TEPSDANNRT GVHSGRHPRE AHSQVRDLDL 60  
CEF94-VP5: .....K.....G.....56

D6948-VP5: QFDGGHRVR ANCLFPWEPW LNCGCSLHTA EQWELQVRSD APDCPEPTGQ LQLQASESE 120  
CEF94-VP5: .....I.....116

D6948-VP5: SHSEVKHTPW WRLCTKWHHK RRDLPRKPE  
CEF94-VP5: .....S.....R.....145

**FIG. 168 204**

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D6948-PP:	MTNLQDQTQQ	IVPFIRSLIM	PTTGPASIPD	DTLEKHTLRS	ETSTYNLTVG	DTGSGLIVFF	60
CEF94-PP:	.....	.....	.....	.....	.....	.....	60
D6948-PP:	PGFPGSIVGA	HYTLQSNGNY	KFDQMLLTAQ	NLPASYNYCR	LVSRSLTVRS	STLPGGVYAL	120
CEF94-PP:	.....	.....	.....	.....	.....	.....	120
D6948-PP:	NGTINAVTFQ	GSLSELTDFS	YNGLMSATAN	INDKIGNVLU	GEGVTVLSLP	TSYDLGYVRL	180
CEF94-PP:	.....	.....	.....	.....	.....	.....	180
D6948-PP:	GDPIPAIGLD	PKMVATCDSS	DRPRVYTITA	ADDYQFSSQY	QAGGVTTITLE	SANIDAITSL	240
CEF94-PP:	.....	.....	.....	.....	.....	P.....	240
D6948-PP:	SIGGELVFQFT	SVQGLLIGAT	IYLIGFDGTA	VITRAVADN	GLTAGTDNLM	PFNIVIPTSE	300
CEF94-PP:	.V.....	.H..V....	.....	.....N.	...T.....L	...L....N.	300
D6948-PP:	ITQPITSIKL	EIVTSKSGQQ	AGDQMSWSAS	GSLAVTIHGG	NYPGALRPVT	LVAYERVATG	360
CEF94-PP:	.....	.....	.....	.....	R.....	.....	360
D6948-PP:	SVVTVAGVSN	FELIPNPCLA	KNLVTEYGRF	DPGAMNYTKL	ILSERDRLGI	KTVWPPTREYT	420
CEF94-PP:	.....	.....	.....	.....	.....	.....	420
D6948-PP:	DEREYEMEVA	DLNISPLKIAG	AFGFKDIIRA	<u>LRRIIAVEVVS</u>	TLFPPAAPLA	HAIGEGVDYL	480
CEF94-PP:	.....	.....	.....	I.....	.....	.....	480
D6948-PP:	<u>LGDEAQQAASG</u>	TARAASGKAR	AASGRIROLT	LAADKGYEVV	ANLFQVPQNP	VVDGILASPG	540
CEF94-PP:	.....	.....	.....	.....	.....	.....	540
D6948-PP:	<u>ILRGAAHNDC</u>	VLREGATLFP	WVITTEDAM	TPKALNSKMF	AVIEGVREDL	OPPSQRGSFI	600
CEF94-PP:	V.....	.....	.....	.....	.....	.....	600
D6948-PP:	<u>RTLSGHRYYG</u>	YAPDGVLPLE	<u>TGRDYTVVPI</u>	DDWDDDSIML	SKDPPIPPIVG	NSGNLAIAYM	660
CEF94-PP:	.....	.....	.....	.....	.....	.....	660
D6948-PP:	<u>DVERPKVPIH</u>	VAMTGALNAY	GEIENVSERS	TKLATAHRLG	LKLAGPAGFD	VNTGSNWATF	720
CEF94-PP:	.....	C.....	K.....	.....	.....	P.....	720

FIG. 20B  
MICROGRAPH (CROSS SECTION)

ECCLESIASTES (Continued)

D6948-PP:	<u>I</u> KRFPHNPRD	WDRLPYLNLP	YLPPNAGRQY	DLAMAASEFK	ETPELESAVR	AMEAAANVDP	780
CEF94-PP:	.....	.....	.....	H.....	.....	.....	780
D6948-PP:	LFOQSALSVFM	WLEENGIVTD	MANFALSDFN	AHRMRNELAN	APQAGSKSQR	AKYGTAGYGV	840
CEF94-PP:	.....	.....	.....	.....	.....	.....	840
D6948-PP:	EARGPTPEEA	QREKDTRISK	KMETMGIYFA	TPEWVALNGH	RGPSPGQLKY	WQNTREIPDP	900
CEF94-PP:	.....	.....	.....	.....	.....	.....	900
D6948-PP:	NEDYLDIVHA	EKSRLASEEQ	ILRAATSIYG	APGQAEPQQA	FIDEVAKVYE	INHGRGPQNE	960
CEF94-PP:	.....	.....	.....	.....	.....	.....	960
D6948-PP:	QMKDILLTAM	EMKHRNPRRA	PPKPKPKPNA	PTQRPPGRLG	RWIRAVSDED	LE.....	1012
CEF94-PP:	.....	.....	.....	L.....	.....	T.....	1012

**FIG. 26C 21A**

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D6948-VP1:	MSDVFNSPQA RSKISAAFGI KPTAGQDVEE LLIPKVVWPP EDPLASPSRL AKFLRENGYK	60
CEF94-VP1:	... I..... T.....	60
D6948-VP1:	ILQPRSLPEN EYETDQILP DIAWMRQIEG AVLKPTLSLP IGDQEYFPKY YPTHRSKEK	120
CEF94-VP1:	V.....	120
D6948-VP1:	PNAYPPDIAL LKQMIYLFLQ VPEATDNLKD EVTLLTQNIR DKAYGSGTYS QATRLVAMK	180
CEF94-VP1:	.....NEG...	180
D6948-VP1:	EVATGRNPNK DPKLGYTFE SIAQLLDITL PVGPPGEDDK PWVPLTRVPS RMLVLTDVD	240
CEF94-VP1:	.....	240
D6948-VP1:	GFEVEDYLP KINLKSSSGL PYVGRTKGET IGEMIAISNQ FIRELSALLK QGAGTKGSNK	300
CEF94-VP1:	.D.....	300
D6948-VP1:	KKLLSMLSDY WYLSCLLFP KAERYDKSTW LTKTRNIWSA PSPTHLMISM ITWPVMSNSP	360
CEF94-VP1:	.....	360
D6948-VP1:	NNVLNIEGCP SLYKENPFRG GLNRIVEWIM APDEPKALVY ADNIYIVHSN TWYSIDLEKG	420
CEF94-VP1:	.....L.....E.....	420
D6948-VP1:	EANCTRQHMQ AMYYILTRG WSDNGDPMEN QTWATEFAMNI APALVVDSC LIMNLQIKTY	480
CEF94-VP1:	.....	480
D6948-VP1:	GQGSNAATF INNHLLSTLV LDQWNLMKQP SPDSEEFKSI EDKLGINFKI ERSIDDIRGK	540
CEF94-VP1:	.....R.....	540
D6948-VP1:	LRQLVPLAQGP GYLGGVEPE QPSPTVELDL LGWSATYSKDR LGIYVPVLDR ERLFCSAAYP	600
CEF94-VP1:	.....S.....	600
D6948-VP1:	KGVENKSLKS KVIGIEQAYKV VRYEARLVRG GWNYPLLNKA CKNNASAARR HLEAKGFPLD	660
CEF94-VP1:	.....G.....	660
D6948-VP1:	EFLAEWSELS EFGEAFFEGFN IKLTVTPESL AELNRVPPK PPNVNRPVNT GGLKAVSNAL	720
CEF94-VP1:	.....S.....K.....	720

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**INOTATED SHEET SHOWING CHANGES**

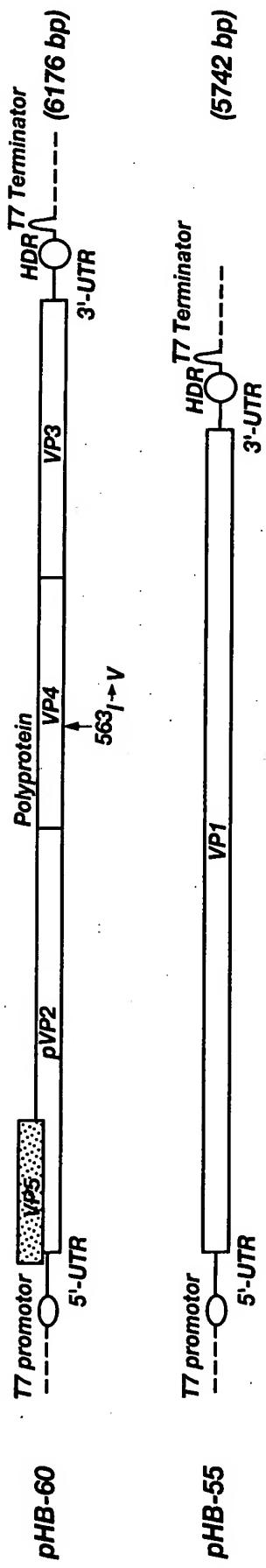


FIG. 22

**FIG. 18A**      **FIG. 18B**      **FIG. 18C**

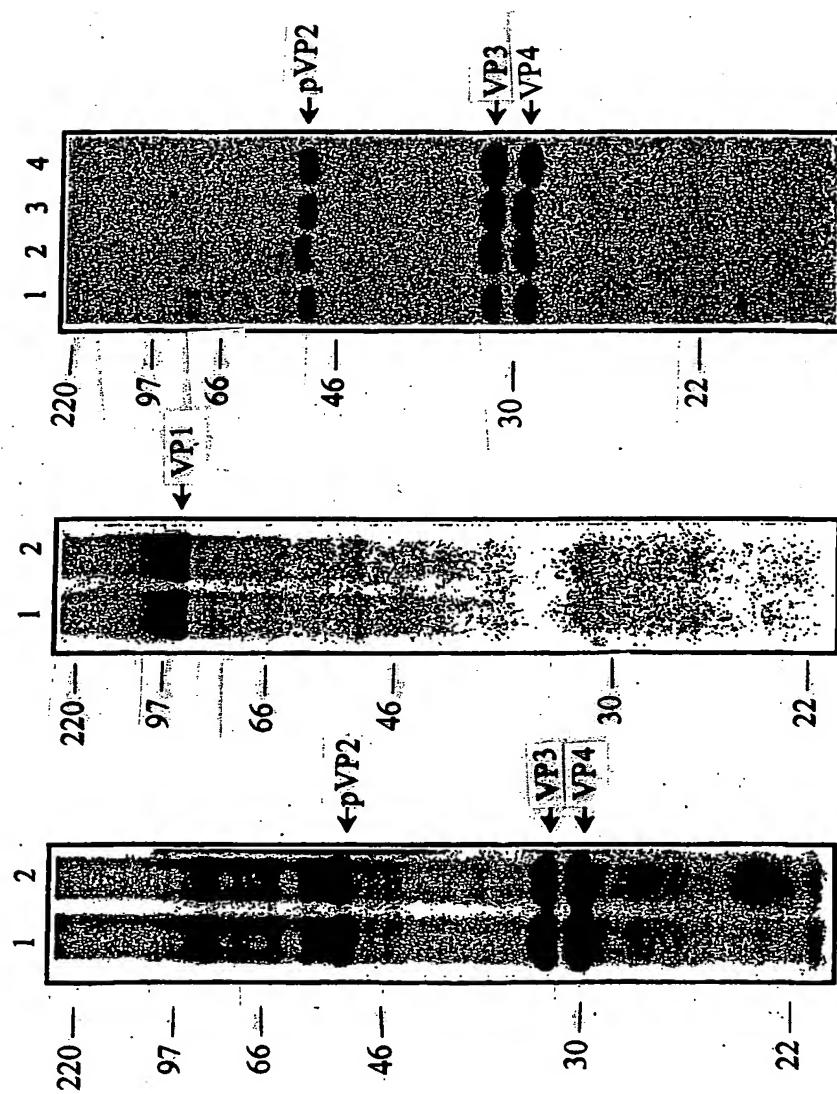
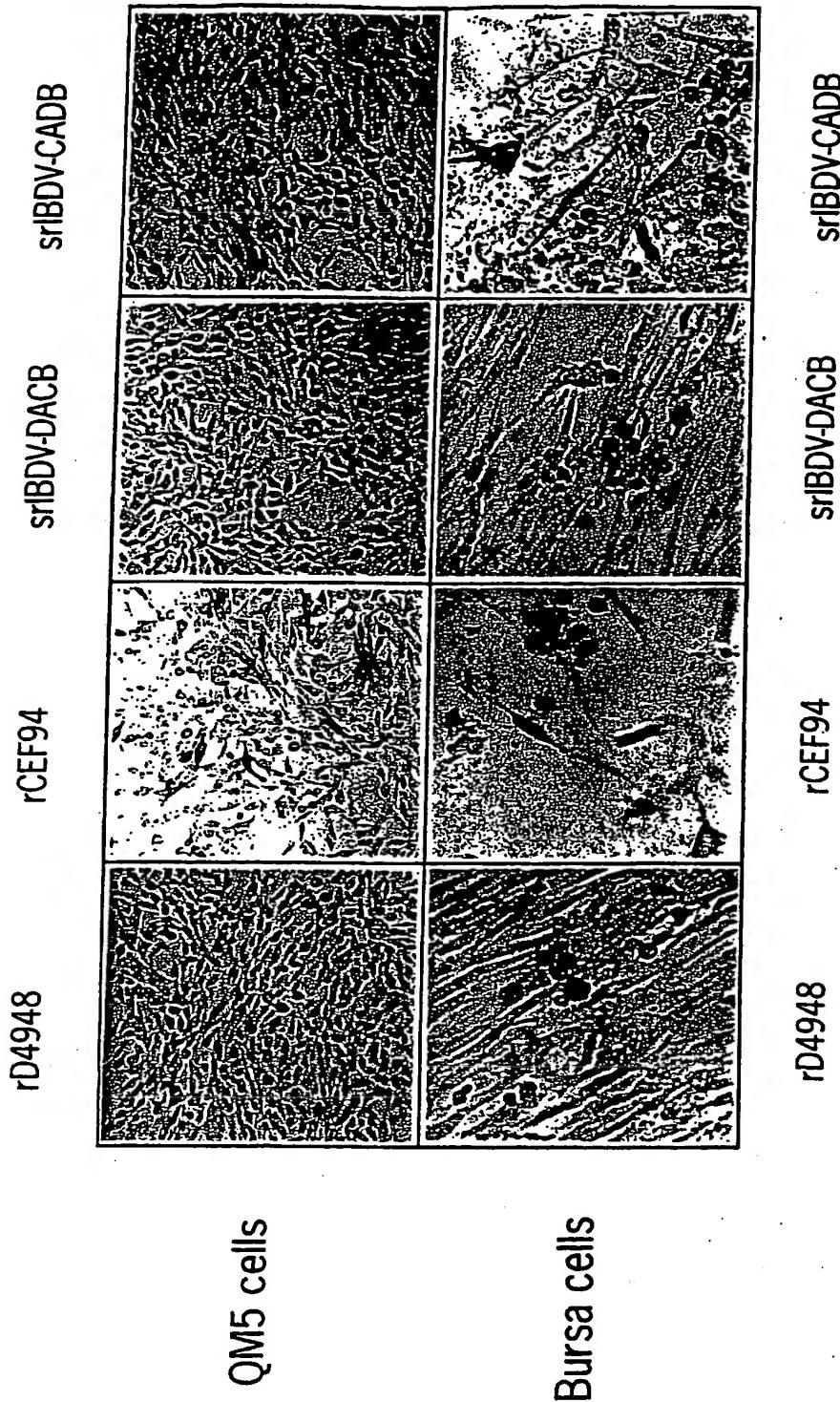


FIG. 24



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**ANNOTATED SHEET SHOWING CHANGES**

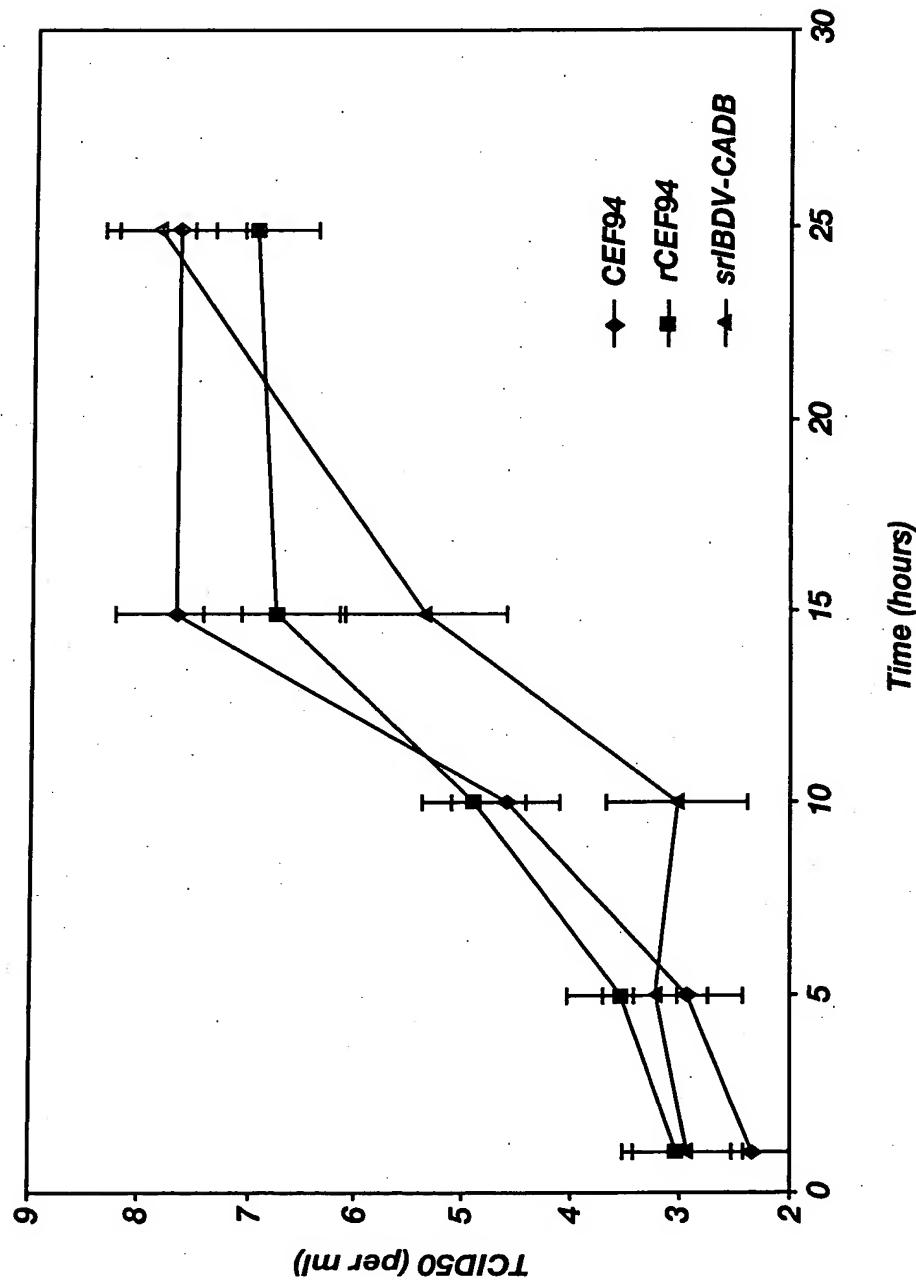


FIG. 20 25

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 Reply to Form PTO-948 dated 7/25/02  
**ANNOTATED SHEET SHOWING CHANGES**

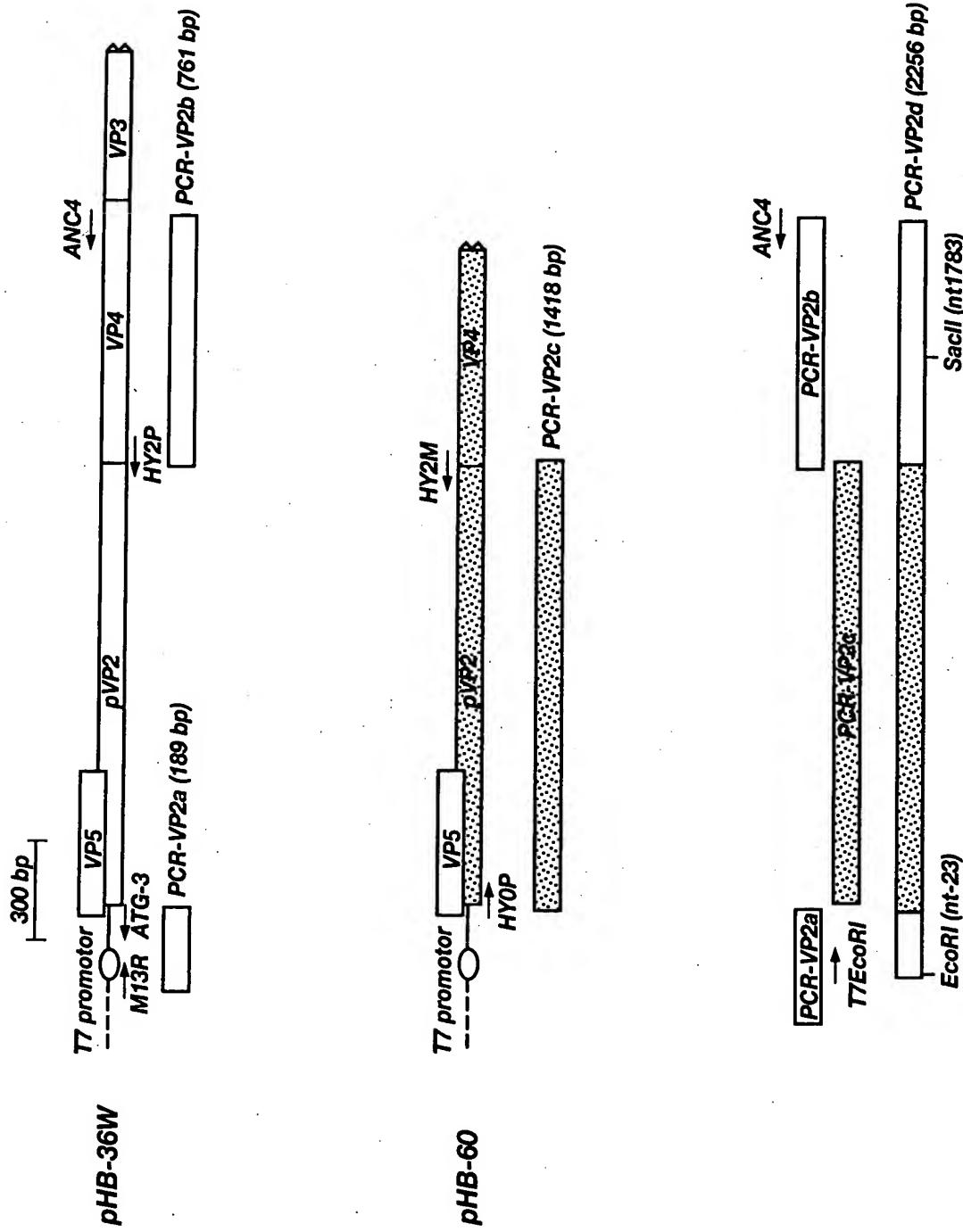


FIG. 24 26

FIG. 22 27

